

MarkeTips

Volume 23, Number 2

March/April 2010

Going Green with GSA

Going Green with GSA

H1N1: The Making of a Pandemic

Energy Metering

LEED for Commercial Interiors

Expo Details
Inside!

inside this issue



Go Green With GSA

“Going green” is a top priority for all of us at GSA. Whether it’s green roofs, self-generated renewable projects, or alternative fuel vehicles, GSA is fully committed to the goals of the President’s Executive Order and to helping our client agencies meet their environmental goals.

GSA can help agencies meet their environmental obligations by providing responsible choices by means of our services and offerings. Falling under this umbrella are:

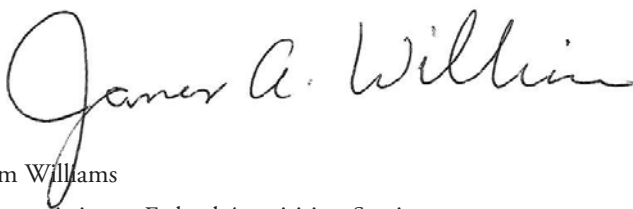
The construction and leasing of energy-efficient, sustainable design buildings; the procurement of renewable utility services; environmentally friendly telework and other alternative workplace arrangements; a selection of the latest fuel vehicles (afv’s); and a wide range of environmentally preferable office products.

Energy efficiency and environmentally beneficial practices have been part of GSA’s repertoire for years. Sustainability in building design, construction and operation is fundamental to the core mission of GSA’s public buildings service to provide a world-class workplace for the federal worker and superior value for the American taxpayer.

We’re also taking the lead in helping federal agencies comply with the President’s Executive Order regarding transportation. GSA helps federal agencies reduce petroleum consumption by offering alternative fuel vehicles and hybrid electric vehicles for lease and purchase.

Federal Agencies can depend on GSA to help meet environmental obligations by providing a wide range of environmentally preferable office and other products through our acquisition programs offering everything from environmental assessments and energy management programs to recycled paper, energy-efficient lighting, paints, chemicals, and pollution-prevention systems.

Please take a few moments to learn more about GSA’s environmental resources by visiting www.gsa.gov/green.



Jim Williams

Commissioner, Federal Acquisition Service

Let's make progress **TOGETHER**



GSA Contracts Put You In Control

The call to duty is urgent. With so little time to act, you need immediate solutions to meet accelerated timeframes while ensuring transparency, accountability and value. GSA's Multiple Award Schedules and Governmentwide Acquisition Contracts—and our other self-service purchasing programs and online tools—put you in control of the procurement process. We offer the quickest and easiest way to get the products and services you need from pre-qualified vendors at pre-approved competitive prices. Our contracting options provide flexibility to structure orders your way while meeting specific reporting requirements. We're here to help you quickly reinvest in America and move forward to recovery.



GSA is here to help: gsa.gov/recoverysolutions or (800) 488-3111



U.S. General Services Administration

MarkeTips

One Country. One Mission. One Source.

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GSA Training Conference & Expo 2010 Training Tracks

The Expo training program has been developed to support the needs of the new or experienced acquisition professional or program managers, as well as executives involved in acquiring or managing their agency's resources.

GSA Training Conference & Expo 2010 provides many new training tracks, so plan to attend and *Be Part of the Action*:

- Training by federal program experts
- Exhibits by vendors under GSA contract
- Networking opportunities with a multitude of agency professionals
- Complimentary meeting spaces for federal agencies



Acquisition Skills & Essentials track offers CLP-certified courses that meet acquisition training requirements under DAWIA and Clinger-Cohen, as well as sessions that highlight topics pertinent to today's acquisition professional. Class sessions include, but are not limited to:

- Negotiating with Confidence to Meet Agency Needs
- Government Contract Law – Post Award
- Award-Winning Acquisition Practices
- HotTopics –What's New in Acquisition
- And much more!

Workforce Development courses will provide strategies to enhance your skills, abilities and knowledge in your work activities, allowing you to take charge of your personal and professional development. Topics include maximizing your effectiveness to minimize your stress and career management for both the novice and seasoned professional.



Get the latest in training information at:
expo.gsa.gov

Products & Services You Need showcases a wide range of GSA Solutions that can meet nearly any requirement to help make your job easier and more efficient. Sessions will be provided in the following topic areas:

- Product Solutions – supporting the operation of offices, facilities and specialized task performance
- Service Solutions – professional and technical services in support of different disciplines
- Transportation Solutions – streamlining the movement of freight, household goods and employees around the world
- Travel Solutions – travel, lodging and charge card resources
- Technology Solutions – cutting-edge IT and telecom products, systems and services
- Buildings and Real Estate – sustainable and innovative solutions for design, workplace management and construction



Strategic Programs, Initiatives & Partnerships

will spotlight unique offerings in support of national priorities and government mandates that include green government and purchasing, state and local programs and initiatives, and other hot topics like Federal Strategic Sourcing, Emergency Management and Response and USDA's BioPreferredSM Program.

Procurement Methods to Meet Your Needs provides purchasing options and methods available through GSA and explains how to use them to obtain best value for your agency dollar.



Leveraging the Power of the Internet – Online Tools & Resources offers training on GSA eTools and DOD EMALL, and how to use them to simplify a transaction.



GSA – Helping Agencies Achieve **GREEN EXCELLENCE**

At GSA, we're committed to our customers and to the environment. We offer many environmental solutions to help Reduce, Reuse, and Recycle.

What GSA offers you:

- **Green products and services**
- **Recycling and property disposal programs**
- **GSA-sponsored telework centers**
- **Operating and leasing green buildings**
- **Buying and leasing options for green vehicles**
- **Environmental training classes at Expo!**

For more information on how GSA is committed to helping federal agencies go green, visit: www.gsa.gov/green.

GSA Training Conference & Expo 2010 Green Training Offerings:

- **Buy Green with GSA Multiple Award Schedules, Supply and Surplus Property Supply Chain**
- **Going Green – How FAS Can Help you Meet Green Purchasing Requirements**
- **Property Disposal – A Green Government Program**
- **Green Purchasing – OFEE and GSA Partnership**
- **Green Purchasing – How to Write Green Requirements**
- **Green Legislative Review and Analysis**
- **Green Buildings & Practices**
- **Green is Not Just a Color**
- **Federal Leadership in Environmental, Energy and Economic Performance (PBS/FAS Panel)**
- **Your Legal Responsibility for Buying Green**
- **Sustainability on GSA Multiple Award Schedule**

For more information on Green Training Offerings, visit: expo.gsa.gov.

GSA Training Conference & Expo 2010 Tentative Schedule

Monday, May 3, 2010

Early Registration for Customers and Exhibitors

| | |
|---------------------------------|--------------------|
| Customer Agency Meetings | 9 a.m. – 4 p.m. |
| Customer/Exhibitor Registration | Noon – 5 p.m. |
| Welcome Ice Cream Social | 1 p.m. – 3:30 p.m. |
| Exhibitor Setup | 1 p.m. – 5 p.m. |

Tuesday, May 4, 2010

First Official Day of GSA Training Conference & Expo 2010

| | |
|-------------------------------------|---------------------|
| Customer and Exhibitor Registration | 7 a.m. – 6:30 p.m. |
| Exhibitor Setup | 8 a.m. – 5 p.m. |
| Customer Agency Meetings | 9 a.m. – 4 p.m. |
| Training Sessions | 9 a.m. – 3:45 p.m. |
| Lunch | 11:30 a.m. – 1 p.m. |
| Welcome Reception | 4 p.m. – 7 p.m. |

Wednesday, May 5, 2010

The Exhibit Floor Opens and Training Continues!

| | |
|---------------------------------|---------------------|
| Customer Registration | 7 a.m. – 4 p.m. |
| Ribbon Cutting for Exhibit Hall | 8:30 a.m. |
| Exhibit Hall Opens | 8:30 a.m. – 4 p.m. |
| Lunch | 11:30 a.m. – 1 p.m. |
| Training Sessions | 1 p.m. – 3:45 p.m. |

Thursday, May 6, 2010

| | |
|--|---------------------|
| Customer Registration | 7 a.m. – 11 a.m. |
| Early Bird Training Session | 8 a.m. – 9:15 a.m. |
| Exhibit Hall Open | 8:30 a.m. – 2 p.m. |
| Lunch | 11:30 a.m. – 1 p.m. |
| Training Sessions | 1 p.m. – 3:45 p.m. |
| Customer Agency Meetings | 2 p.m. – 4 p.m. |
| GSA Training Conference & Expo 2010 Concludes | 4 p.m. |



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GSA Training Conference and Expo 2010

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Federal Civilian Agencies, Military and State & Local Government Registration Fax Form

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Email Address*:

First Name(s)*

Last Name*

Suffix (Jr, III, etc.)

Job/Position Title

Rank/Grade*

1. Organization*

Agency*

Bureau*

Address Line 1*

Address Line 2

Mailstop

AAC or DODAAC

City*

State*

Postal Code*

Country

Work Phone*

Ext.

Fax

2. Do you have any special dietary or medical needs? _____

3. Role:

☐ Requirements Developer

☐ Influencer

☐ Decision Maker

☐ Other

☐ Not Applicable

4. Contact preferences. Please check all that apply.

I would like to receive additional information about product and service offerings from GSA via:

☐ Phone

☐ Email

☐ Mail

5. Please indicate your purchasing authority:

☐ No Authority

☐ Up to \$3,000

☐ Up to \$25,000

☐ Up to \$100,000

☐ Over \$100,000

Go Green with GSA

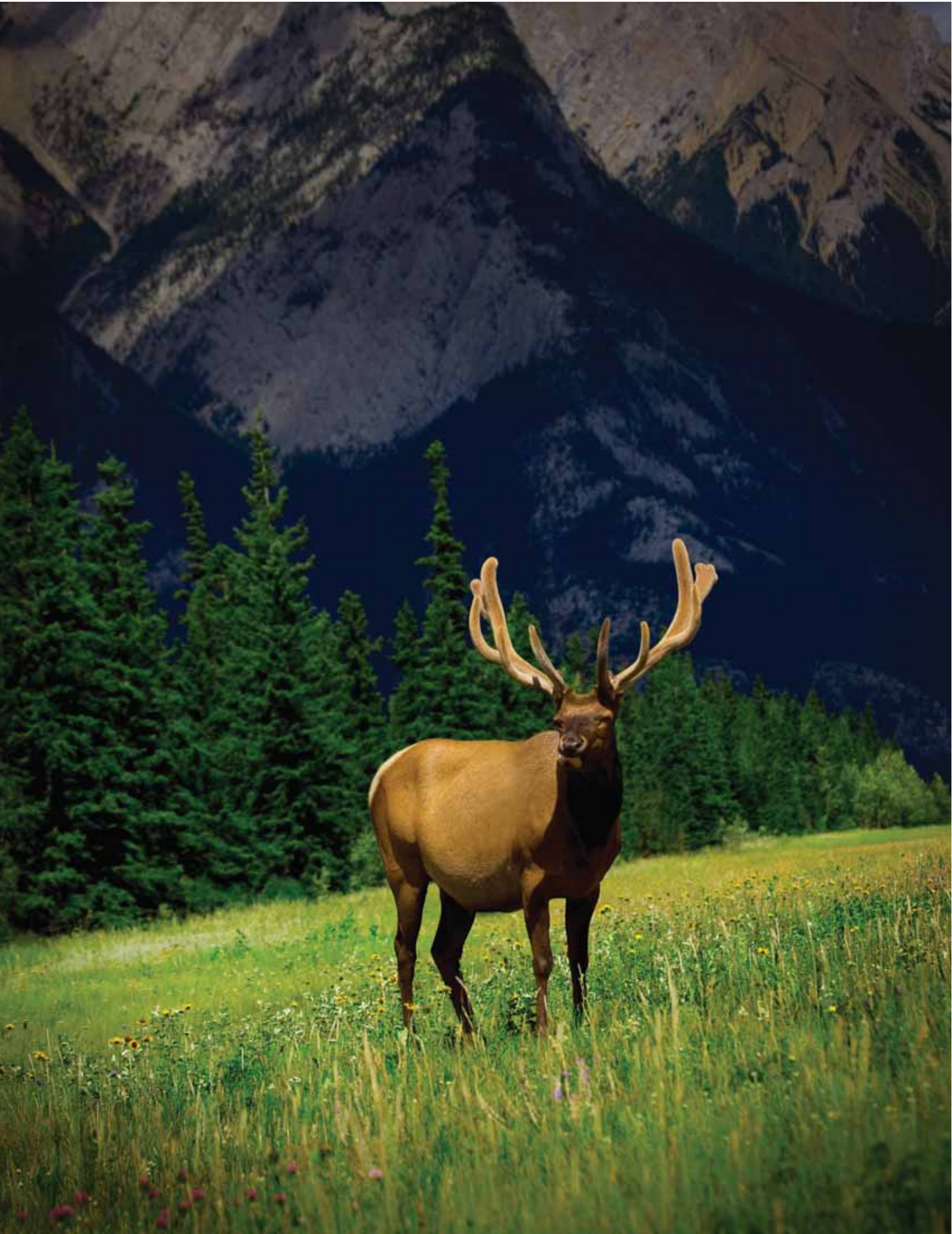
Smarter Solutions for a Better Environment

GSA is working toward environmental management stewardship in every aspect of its mission; both in serving other agencies and in its own operation.



From purchasing recycled paper and managing office waste, to buying renewable power and managing energy efficient buildings, GSA uses green solutions to operate efficiently. Federal agencies can access green products and services at GSA. Buying green is good for the environment and good for business. GSA's environmental policy statement includes the following goals:

- Continuously strive to be the premier provider of healthy built environments for Federal employees;
- Continuously strive to prevent waste and pollution and adopt practices that minimize the effects of our operations on the natural environment;
- Maintain transparency by consulting with, listening to, and being responsive to our customers, employees, neighbors, public interest groups, and those who work with us;
- Work with others – our partners, contractors, and regulators – to help improve environmental, health, and safety management of the real estate industry;
- Promote awareness of applicable environmental, health, and safety requirements on behalf of all persons carrying out GSA operations by providing training to GSA employees, and requiring contractors to demonstrate their employees have been sufficiently trained;
- Comply with all applicable environmental, health, and safety requirements;
- Implement and continually improve an environmental management framework based on an external standard; and
- Periodically recognize those in the organization who make significant contributions to improved environmental, health, and safety performance.





Environmental Mandates



Federal Leadership in Environmental, Energy, and Economic Performance

Executive Order 13514 states that GSA can provide extensive and significant products and services to federal agencies trying to respond to the requirements laid forth in Executive Order 13514.

The EO establishes sustainability goals for federal agencies and focuses on improving their environmental, energy, and economic performance. It builds and expands on the energy reduction and environmental requirements of EO 13423 by making reductions of both direct and indirect greenhouse gas emissions a priority of the federal government and requiring agencies to develop sustainability plans focused on cost-effective projects and programs.

Implementation of the EO focuses on integrating achievement of sustainability goals with agency mission and strategic planning to optimize performance and minimize cost.

Requirements for Government Agencies

Under the new executive order, federal agencies are required to measure, manage, and reduce greenhouse gas emissions toward agency-defined targets. Agencies'

efforts and outcomes in implementing this order shall be transparent through publicly available federal Web sites. Agencies also must:

1. Reduce vehicle fleet petroleum use 30 percent by 2020
2. Improve water efficiency 26 percent by 2020
3. Implement the 2030 net-zero-energy building requirement
4. Meet sustainability requirements across 95 percent of all applicable contracts
5. Develop and carry out an integrated strategic sustainability performance plan
6. Meet a number of energy, waste and waste-reduction targets, such as:
 - Set a 2020 Scope 1 and 2 greenhouse gas emissions reduction target, relative to a fiscal year 2008 baseline, within 90 days (note: "Scope 1" refers to direct greenhouse emissions from sources owned and controlled by the federal


agency, whereas “Scope 2” refers to direct greenhouse emissions resulting from the generation of heat, electricity, or steam purchased by a federal agency)

- Within 240 days, establish and report a 2020 percentage-reduction target for reducing agency-wide Scope 3 greenhouse gas emissions (note: “Scope 3” refers to indirect greenhouse gas emissions from sources not owned or directly controlled by a federal agency but related to agency activities, such as vendor supply chains, delivery services, and employee travel/commuting)
- Create a comprehensive inventory of absolute greenhouse emissions (including Scopes one, two, and three) within 15 months for FY2010, and thereafter annually at the end of January; Improve water-use efficiency and management by reducing potable water consumption by 26 percent (by the end of 2010)
- Promote pollution prevention and eliminate waste through: source reduction; diverting at least 50

percent of non-hazardous solid waste by the end of FY2015, and at least 50 percent of construction and demolition materials and debris by the end of FY2015; reducing printing paper use and acquiring uncoated paper containing at least 30 percent post-consumer fiber; reducing the quantity of toxic and hazardous chemicals, etc.

- Support sustainable communities
- Achieve a 30 percent reduction in vehicle fleet petroleum use by FY2020
- 95 percent of all applicable contracts will meet sustainability requirements – ensure that 95 percent of new contract actions including task and delivery orders for products and services are energy efficient (Energy Star or FEMP designated), water-efficient, bio-based, environmentally preferable (EPEAT certified), non-ozone depleting, contain recycled content, or are non-toxic
- Implementation of the 2030 net-zero-energy building requirement: Zero-net-energy building refers to a building, constructed and operated to require a greatly reduced quantity of energy to operate, meet the balance of energy needs from sources of energy that do not produce greenhouse gases and result in no net emissions of greenhouse gases and are economically viable
- Each agency will be responsible for developing, implementing, and annually updating an integrated Strategic Sustainability Performance Plan, which will prioritize agency actions based on lifecycle return on investment





“As the largest consumer of energy in the U.S. economy, the federal government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and use environmentally responsible products and technologies. This executive order builds on the momentum of the Recovery Act to help create a clean energy economy and demonstrates the federal government’s commitment, over and above what is already being done, to reducing emissions and saving money.” — Barack Obama

Metering Services Legislation

The Energy Policy Act of 2005 (EPAct 2005), Section 103, requires all federal agencies to install metering and advanced metering where found to be cost-effective, according to guidelines developed by the Department of Energy (DOE), in consultation with a number of interest groups. DOE has met with representatives from the metering industry, the utility industry, energy services industry, energy efficiency industry, energy efficiency advocacy organizations, national laboratories, universities, and federal facility managers to develop the guidelines.

Agencies are required to install standard or advanced meters at all federal buildings to the maximum extent practicable, by October 1, 2012.

Agencies are required to report on their progress as part of their annual input to the DOE Report to Congress beginning with FY 2007. Progress will be measured based on the number of buildings metered and the percent of agency electricity consumption represented by those buildings. Starting with FY 2008, agencies are required to report progress on both buildings with standard meters and buildings with advanced meters.

How GSA can help agencies achieve their metering requirements

Metering Services are available as part of GSA MAS 03FAC, Facilities Maintenance and Management. The MAS gives agencies access to services such as the installation of metering equipment and software used for the collection of data and measurement of energy consumption through electric, gas, water, or steam utilities. Data is utilized to ensure energy conservation goals are being met, and allow for the measurement and tracking of the cost effectiveness of energy technology investments. This could include basic metering services, advanced metering services, maintenance, installation, removal, and disposal of new or existing equipment. Security clearances such as HSPD-12 may be required.

Other Environmental

Alternative Fuel Vehicles

Energy Policy Act of 1992

Public Law 102-486 (October 24, 1992)

75 percent of a federal agencies annual light-duty vehicle acquisitions in metropolitan statistical areas must be alternative fuel vehicles (AFVs). www.eere.energy.gov/afdc

Energy Policy Act of 2005

Public Law 109-58 (August 8, 2005)

Federal agencies must use alternative fuel 100 percent of the time in AFVs. www.eere.energy.gov/afdc

GSA Fleet must surcharge customer agencies for AFV incremental costs. www.gsa.gov/afv

Biobased Products

Executive Order 13101

63 FR 49643 (September 14, 1998)

Requires the USDA to publish a biobased products list. www.biopreferred.gov

Farm Security and Rural Investment Act of 2002

Public Law 107-171 (May 13, 2002)

Requires federal agencies to procure biobased products where purchases exceed \$10,000 per fiscal year. Specifications for procurement must require the use of biobased products in the six designated item categories: mobile equipment, hydraulic fluids, biobased roof coatings, water tank coatings, diesel fuel additives, penetrating lubricants, and bedding, bed linens, and towels. www.biopreferred.gov

Executive Order 13134

64 FR 44639 (August 16, 1999)

Established the Advisory Committee on Biobased Products and Bioenergy, which is tasked with providing an assessment of the goals established by federal agencies to promote biobased products and the effectiveness of programs designed to encourage adoption and use of biobased products. www.ofee.gov/eo/archive/eo13134.pdf

Executive Order 13423

72 FR 3919 (January 24, 2007)

Requires that federal agencies acquire and use biobased goods and services. www.ofee.gov

Energy Efficient Products

Energy Policy Act of 2005

Public Law 109-58 (August 8, 2005)

Requires agencies to acquire Energy Star and Federal Energy Management Program (FEMP) designated products and incorporate these requirements into their specifications. GSA and DLA must supply only Energy Star products or products that meet FEMP efficiency recommendations. Also, GSA and DLA must clearly identify and prominently display such products in catalogs. www.eere.energy.gov/femp

Mandates

Executive Order 13123

64 FR 30851 (June 3, 1999)

Requires agencies to acquire Energy Star and Federal Energy Management Program (FEMP) designated products and incorporate these requirements into their specifications. www.energystar.gov

Executive Order 13221

66 FR 40571 (July 31, 2001)

When purchasing commercially available, off-the-shelf products that use external standby power devices, agencies are required to purchase products that use no more than one watt in their standby power consuming mode.

www.eere.energy.gov/femp/procurement/ eep_standby_power.html

Executive Order 13423

72 FR 3919 (January 24, 2007)

Requires that federal agencies acquire and use energy-efficient goods and services. Agencies must acquire electronic products that meet at least 95 percent of the Electronic Product Assessment Tool (EPEAT) requirements, unless there is no EPEAT standard for the product. Requirements: Agencies must enable Energy Star features on computers and monitors. www.ofee.gov

Environmentally Preferable Products

Executive Order 13101

63 FR 49643 (September 14, 1998)

Requires federal agencies purchase environmentally preferable products. www.epa.gov/epp

Executive Order 13423

72 FR 3919 (January 24, 2007)

Requires federal agencies acquire and use environmentally preferable goods and services. www.ofee.gov

Non-Ozone Depleting Substance

Clean Air Act

Public Law 101-549 (November 15, 1990)

Section 608 requires the EPA to promulgate regulations establishing standards and requirements regarding the use and disposal of class I and II substances during the service, repair, or disposal of appliances and industrial process refrigeration. www.epa.gov/ozone/ods.html

Executive Order 13148

65 FR 24595 (April 21, 2000)

Section 206 requires federal agencies to develop a plan to phase out the procurement of Class I ozone-depleting substances for all nonexcepted uses by December 31, 2010. www.epa.gov/ozone/ods.html

Petroleum Reduction

Executive Order 13149

65 FR 24607 (April 21, 2000)

Reduce petroleum consumption 20 percent from 1999 consumption levels by 2005 and maintain thereafter.

Requirements: Increase average fleet fuel efficiency 3 miles per gallon from 1999 efficiency level by 2005 and maintain thereafter. www.eere.energy.gov/vehiclesandfuels/epact/pdfs/EO13149.pdf

Executive Order 13423

72 FR 3919 (January 24, 2007)

Reduce agency fleet's total consumption of petroleum products by two percent annually from FY 2005 consumption levels through the end of FY 2015. Requirements: Increase the agency's total non-petroleum based fuel consumption 10 percent annually from FY 2005 consumption levels through the end of FY 2015. Requirements: Use plug-in hybrid vehicles (PIHV) when PIHVs are commercially available at a cost reasonably comparable on the basis of life-cycle cost to non-PIHVs. www.ofee.gov

Priority Chemicals

Executive Order 13148

65 FR 24595 (April 21, 2000)

Each agency shall reduce its reported Toxic Release Inventory (TRI) releases and off-site transfers of toxic chemicals for treatment and disposal by 10 percent annually, or by 40 percent overall by December 31, 2006. Each agency shall reduce its use of selected toxic chemicals, hazardous substances, and pollutants, or its generation of hazardous and radioactive waste types at its facilities by 50 percent by December 31, 2006.

www.ofee.gov/eo/archive/eo_archive.asp

Executive Order 13423

72 FR 3919 (January 24, 2007)

Agencies must reduce the quantity of toxic and hazardous chemicals and materials acquired. www.ofee.gov

Recycled Content Product

Executive Order 13101

63 FR 49643 (September 14, 1998)

Purchase recycled content and other environmentally preferable products. Recycled paper post-consumer content is set at 30 percent. All agencies must create an affirmative procurement plan (APP) for recycling. It also requires EPA to establish Comprehensive Procurement Guidelines (CPG). GSA is required to include environmental and recycling provisions in its buildings program. www.epa.gov/cpg

Resource Conservation and Recovery Act

Public Law 94-580 (October 21, 1976)

Section 6002 directs EPA to designate items that are or can be produced with recovered materials and to recommend practices for buying these items. Section 6002 also requires procuring agencies to establish affirmative procurement programs for designated items. www.epa.gov/cpg

Executive Order 13423

72 FR 3919 (January 24, 2007)

Requires agencies to acquire goods and services that have recycled-content properties and use paper of at least 30 percent post-consumer fiber content. www.ofee.gov

Environmental Services Solutions from GSA





GSA offers a wide range of environmental services to help agencies achieve their environmental goals.

Environmental Management Services

Executive Order 13423 calls for widespread use of Environmental Management Systems (EMS). An EMS is used to assist in the identification, tracking, and prioritization of environmental issues and their impacts. Vendors from GSA MAS can create EMS systems, conduct audits on your current EMS systems or assist with creating your agency's own audit procedures. In addition to expertise on enterprise-level environmental programs, contractors are available for specific operational tasks such as waste management planning; pollution prevention; hazardous materials disposal; electronic recycling; emergency response; water conservation; mold abatement; and environmental occupational training.

Energy Management Services

The Energy Management area includes expert services and support in all areas of energy strategic planning, training, and implementation of energy projects to assist your agency in meeting your energy efficiency goals in compliance with federal initiatives. The energy management area covers a wide array of energy services from cursory to comprehensive. Services include: comprehensive energy analysis and modernization projects; building commissioning services; metering and advanced metering; energy and water audits and analysis; turn-key renewable

energy solutions; energy choice analysis; and feasibility studies and complete support, including billing consolidation and management; consulting; training; and other services on energy-efficient building certifications such as Leadership in Energy and Environmental Design (LEED®).

Facility Maintenance Services

GSA offers access to solutions for managing and maintaining facilities in an environmentally responsible manner ranging from complete facilities maintenance and management to an array of individual building maintenance and inspection services. These individual services include: routine maintenance and repair of facilities and systems, including fire alarm and fire suppression systems, elevator maintenance and inspection, refrigeration and HVAC systems, grounds maintenance, and more, with the convenience of using pre-qualified contractors. Additional services including waste disposal; office waste and paper recycling; and hazardous material handling, are also available. Facility maintenance handles office waste and paper recycling (documents).

For more information about environmental solutions from GSA, please visit www.gsa.gov/gogreen.

Environmental Products and Services Community Crosswalk

The following Environmental Products and Services Community Crosswalk chart simplifies identifying GSA MAS contracts to meet your specific needs. This crosswalk is designed to help translate your requirements to GSA contracts that can meet those requirements.

The Environmental Areas in the chart simulate store aisles, organizing related offerings for intuitive shopping. Working through the SIN Titles, you can determine which SIN or SINs best meet your needs, and can target those SINs in your Request for Quote. The Environmental Products and Services Community Crosswalk is a one-source reference of the contracts and acquisition methods available for product or service areas.

How to Use This Chart:

1. Select an Environmental Area.

2. Scan down the Environmental Areas, reading the SIN Titles. When using a PDF version of this document ("USGSA-5-09-00444_Enviro_Trifold.pdf" is available at www.gsa.gov/gogreen), the SIN Title is hyperlinked to www.gsaelibrary.gsa.gov for details and contractor listings.

3. Working through the SIN Titles, take note which indicate the SINs available to meet each requirement.

| Environmental Areas | | | | | | GSA MAS Name • SIN Title | SIN | |
|------------------------|-----------------|-------------------------------|-------------------------------------|----------------------------|---|---|---------|--|
| Environmental Services | Energy Services | Facility Maintenance Services | Equipment and Construction Material | Furnishings and Appliances | Office Products, Cleaning Supplies, Paints and Coatings | | | |
| | | | | | | GSA MAS 03FAC: Facilities Maintenance and Management | | |
| • | • | • | | | • | Complete Facilities Maintenance | 811 002 | |
| • | • | • | | | • | Complete Facilities Management | 811 003 | |
| | • | | | | | Energy Management and Planning | 871 202 | |
| | • | | | | | Training on Energy Management | 871 203 | |
| | • | • | | | | Metering Services | 871 204 | |
| | • | | | | | Energy Program Support Services | 871 205 | |
| | | | | | | Building Commissioning Services | 871 206 | |
| | • | • | | | | Energy Audit Services | 871 207 | |
| | • | • | | | | Resource Efficiency Management (REM) | 871 208 | |
| | • | | | | | Innovations in Energy | 871 209 | |
| • | | | | | | Water Conservation | 871 210 | |
| | | | | | | GSA MAS 899: Environmental Services | | |
| • | | | | | | Environmental Consulting Services | 899 1 | |
| • | | | | | | Environmental Training Services | 899 3 | |
| • | | • | | | | Materials and Waste Recycling and Disposal Services | 899 5 | |
| • | | | | | | Geographic Information Services (GIS) | 899 7 | |
| • | | • | | | | Remediation and Reclamation Services | 899 8 | |
| | | | | | | GSA MAS 51 V: Hardware SuperStore | | |
| | | | | • | | Appliances | 639 001 | |
| | | | | | • | Commercial Coatings, Adhesives and Sealants | 834 100 | |
| | | | | | • | Stains, Varnishes, Sealers and Lacquers* | 834 500 | |
| | | | | | • | Coating Removers | 834 600 | |
| | | | | | • | Lubricants, Petroleum and Waxes | 834 900 | |
| | | | • | | • | Lawn and Garden Equipment, Machinery* | 341 100 | |
| | | | • | | | Tools Powered | 550 001 | |
| | | | • | | • | Store Front | 105 001 | |
| | | | • | | • | Catalog | 105 002 | |
| | | • | • | | | Environmental Equipment Related to Maintenance* | 253 40 | |

*Indicates use of an abbreviated GSA MAS or SIN name. The full name, description and contractor information are available at www.gsaelibrary.gsa.gov.







| Environmental Areas | | | | | | GSA MAS Name • SIN Title | SIN | |
|------------------------|-----------------|-------------------------------|-------------------------------------|----------------------------|---|--|---------|--|
| Environmental Services | Energy Services | Facility Maintenance Services | Equipment and Construction Material | Furnishings and Appliances | Office Products, Cleaning Supplies, Paints and Coatings | | | |
| | | | • | | | Solar Window Film | 563 15 | |
| • | | • | | | | Services for Above Ground Storage Tanks/Systems* | 361 27 | |
| | | • | | | | Installation for Above Ground Storage Tanks/Systems* | 361 28 | |
| | | | • | | | Water Filtration Systems | 641 2 | |
| | | | • | | | Sewage Treatment Equipment/Systems | 641 6 | |
| | | | • | | | Roofing Materials, Products and Services | 563 4 | |
| | | | • | | | Water Purification Units | 641 1 | |
| | | | • | | | Energy Saving Lighting* | 206 4 | |
| | • | | • | | | Repair and Alterations for Alternative Energy Systems* | 412 97 | |
| | | | • | | | Spill Containment Units/Containment Pallets* | 357 10C | |
| | • | | • | | | Alternative and Renewable Energy Solutions* | 206 3 | |
| | | | • | | | Plumbing Products and Bathroom Fixtures | 563 25 | |
| | | | • | | | Industrial Heating/Air Conditioning Units* | 563 27 | |
| | | | • | | | Industrial Water Heaters* | 563 28 | |
| | | | • | | | Miscellaneous Building Materials | 563 29 | |
| | | | | | | GSA MAS 71: Office Furniture | | |
| | | | | • | | Introduction of New Products | 71 1 99 | |
| | | | | • | | Furniture Systems and Workstation Clusters | 711 1 | |
| | | | | • | | Tables and Accessories | 711 11 | |
| | | | | • | | Acoustical Partitions, Demountable Walls & Accessories | 711 13 | |
| | | | | • | | Upholstered Seating (Office) | 711 16 | |
| | | | | • | | Multiple Seating | 711 17 | |
| | | | | • | | Multipurpose Seating | 711 18 | |
| | | | | • | | Stacking Chairs and Dollies or Trucks Designed to Support Stacking Chairs | 711 19 | |
| | | | | • | | Filing & Storage Cabinets, Shelves, Mobile Carts, Dollies, Racks & Accessories | 711 3 | |
| | | | | • | | Executive Office Furniture | 711 8 | |
| | | | | • | | Executive Conference Room Furniture, Coordinated Tables, Case Pieces & Accessories | 711 9 | |
| | | | | • | | Remanufactured Furniture | 711 92 | |
| | | | | • | | Dormitory, Quarters & Residential Caseloads & Beds | 71 204 | |
| | | | | • | | Upholstered Seating (Dormitory, Quarters, & Residential) | 71 206 | |
| | | | | • | | Complete Daycare, Preschool & Classroom Solutions | 71 301 | |
| | | | | • | | Training Room, Auditorium & Theater Furniture | 71 302 | |
| | | | | • | | Cafeteria & Food Service Furniture | 71 308 | |
| | | | | • | | Hospital Beds & Accessories | 71 314 | |
| | | | | • | | Hospital Patient Room Furniture | 71 315 | |
| | | | | • | | Hospital & Geriatric Chairs | 71 316 | |
| | | | | | | GSA MAS 72IA: Floor Coverings | | |
| | | | | • | | Recycled and/or Biobased Flooring* | 31 601 | |
| | | | | • | | Flooring Recycling Programs | 31 602 | |
| | | | | | • | Biodegradable Cleaner/Degreaser (Water Based)* | 375 361 | |
| | | | | | • | Biodegradable Cleaner/Degreaser (Solvent Based)* | 375 362 | |








*Indicates use of an abbreviated GSA MAS or SIN name. The full name, description and contractor information are available at www.gsaelibrary.gsa.gov.

| Environmental Areas | | | | | | GSA MAS Name • SIN Title | SIN | |
|------------------------|-----------------|-------------------------------|-------------------------------------|----------------------------|---|---|----------|------------|
| Environmental Services | Energy Services | Facility Maintenance Services | Equipment and Construction Material | Furnishings and Appliances | Office Products, Cleaning Supplies, Paints and Coatings | | | |
| | | | | | • | Office Recycling and Waste Containers* | 384 2 | |
| | | | | | • | Outdoor Recycling and Waste Containers* | 384 4 | |
| | | | | • | | Refrigeration Equipment | 302 49 | |
| | | | | • | | Biodegradable/Compostable Tableware* | 302 74 | |
| | | | | | | GSA MAS 75: Office Supplies | | |
| | | | | | • | Office Products | 75 200 | |
| | | | | | • | Restroom Products | 75 85 | |
| | | | | | • | New Products | 75 99 | |
| | | | | | | GSA MAS 84: Total Solutions for Law Enforcement | | |
| • | • | • | | | | Facility Management Systems | 246 42 1 | COOP PURCH |
| • | • | • | | | | Facility Management Systems | 246 42 2 | COOP PURCH |
| • | • | • | | | | Facility Management Services | 246 42 3 | COOP PURCH |
| | • | • | | | | Services Relating to Security/Facility Management Systems* | 246 50 | COOP PURCH |
| | • | | | | | Installation of Security/Facility Management Systems* | 246 51 | COOP PURCH |
| | • | | | | | Professional Security/Facility Management Services | 246 52 | COOP PURCH |
| | • | | | | | Facility Management and Energy Solutions, Includes ESPC* | 246 53 | COOP PURCH |
| | | | | | | GSA MAS 751: Leasing of Automobiles and Light Trucks | | |
| | | | • | | | Lease of Sedans | 751 1 | |
| | | | • | | | Lease of Sport Utility Vehicles | 751 2 | |
| | | | • | | | Lease of Light Trucks | 751 3 | |
| | | | | | | GSA MAS 871: Professional Engineering Services | | |
| | | • | | | | Construction Management | 871 1 | |
| | | | | | | Other GSA Product & Service Options | | |
| | | | • | | | GSA AutoChoice (www.gsa.gov/autochoice) | | |
| | | | • | | | GSA Fleet (www.gsa.gov/afv) | | |
| | | | | | • | GSA Global Supply™ (www.GSAglobalsupply.gsa.gov) | | |
| | | | • | • | • | GSAXcess® (www.gsaccess.gov) | | |

*Indicates use of an abbreviated GSA MAS or SIN name. The full name, description and contractor information are available at www.gsaelibrary.gsa.gov.

Environmentally-friendly products listed on GSA Advantage!®, www.gsaadvantage.gov, and offered by GSA Global Supply™, www.GSAglobalsupply.gsa.gov, are identified with environmental attribute symbols to expedite the identification of products that meet specific guidelines. Here is a quick reference for some of the symbols used.

| | |
|---|--|
|  | EPEAT: Electronic Product Environmental Assessment Tool (EPEAT) registered item—Federal ordering activities are required to give preference to information technology (IT) products with an EPEAT rating of gold, silver or bronze. |
|  | Recycled: Item contains recycled content as described in the item detail (U.S. Environmental Protection Agency [EPA] item meeting EO 13101). |
|  | Comprehensive Procurement Guideline Compliant: This product has been certified to meet or exceed the U.S. Environmental Protection Agency's Recovered Material Advisory Notice (RMAN) standard for recovered materials as specified in the Resource Conservation and Recovery Act Section 6002 Comprehensive Procurement Guideline. |
|  | Energy Star: Item complies with U.S. Department of Energy (DOE) and U.S. Department of Environmental Protection Agency's (EPA) Energy Star Program as required by the Federal Acquisition Regulation (FAR) Subpart 23.203 and Executive Order 13123. |
|  | FEMP: Item meets Federal Energy Management Program (FEMP) energy efficiency levels as required by the Federal Acquisition Regulation (FAR) Subpart 23.203, Executive Order 13123, and Executive Order 13221. |
|  | PRIME: Item is included in the Navy's Plastics Removal in Marine Environment (PRIME) program. Items in the PRIME program require biodegradable packing materials. |

| | |
|---|---|
|  | NESHAP Compliant: The "as applied" formulation of this coating has been certified to meet applicable volatile organic compound and hazardous air pollutant emission limits as established by National Emissions Standards for Hazardous Air Pollutant (NESHAP) regulation, 40th Code of Federal Regulation, Part 63. |
|  | GreenSeal Seal of Approval: This product has been certified to meet or exceed voluntary standards for environmental preferability as established by GreenSeal. |
|  | California South Coast Air Quality Management District Compliant: This product has been certified to meet or exceed applicable air emissions standards established by the California South Coast Air Quality Management District. |
|  | Biobased: Commercial or industrial items utilizing biological products or renewable domestic agricultural (plant, animal, and marine) or forestry materials. |
|  | U.S. EPA Significant New Alternatives Program Approved: This product meets the U.S. EPA Significant New Alternatives Program criteria requirement as a suitable substitute for ozone depleting substances. |
|  | Non-Toxic Item: Item is non-toxic. |
|  | U.S. EPA Environmental Technology Verification: This product has been evaluated under the U.S. Environmental Protection Agency Environmental Technology Verification Program and found to be an innovative technical solution, beneficial to human health or the environment. |



Environmental Acronym Glossary



AFV – Alternative Fuel Vehicle

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act of 1980

CEQ – Council on Environmental Quality

CFC – Chlorofluorocarbons

CFR – Code of Federal Regulations

CNG – Compressed Natural Gas

CPG – Comprehensive Procurement Guidelines

CRT – Cathode Ray Tubes

CTC – Closing the Circle Awards

DLA – Defense Logistics Agency

EMS – Environmental Management Systems

EPACT – Energy Policy Act

EPEAT – Electronic Product Environmental Assessment Tool

EPP – Environmentally Preferable Product

FEC – Federal Electronic Challenge

FEMP – Federal Energy Management Program

FSRIA – Farm Security and Rural Investment Act of 2002

GPP – Green Purchasing Plan

GWAC – Government Wide Acquisition Contract

LEED® – Leadership in Energy and Environmental Design, Green Building Rating System

NEPA – National Environmental Policy Act of 1966

NHPA – National Historic Preservation Act

ODS – Ozone Depleting Substance

OFEE – Office of the Federal Environmental Executive

PIHV – Plug-In Hybrid Vehicle

PCB – Polychlorinated Biphenyls

RCRA – Resource Conservation and Recovery Act

RMAN – Recovered Materials Advisory Notice

SGIP – Smart Grid Interoperability Panel

SNAP – Significant New Alternatives Policy

TRI – Toxic Release Inventory

Think Green

Buy Green Products from GSA

GSA's goal is to become the preferred source for environmentally sound products and services in the federal government. GSA offers smarter solutions for a better environment. These solutions include a variety of environmental products and services available to federal customers to assist them in their efforts to comply with procurement responsibilities outlined in federal environmental laws and regulations.



These products are categorized as Comprehensive Procurement Guideline Products and Other Recycled Products; ENERGY STAR Qualified Products and Other Energy Efficient Products; and Safer Paints, Cleaning, and Other Chemical Products.

To this end, the GSA Multiple Award Schedule (MAS) program continually updates contracts to ensure that vendors meet Environmental Protection Agency (EPA) and Department of Energy (DOE) purchasing requirements. GSA's online shopping and requisitioning systems highlight products containing environmental attributes, such as recycled materials, in their individual price lists and catalogs.

Often, identifying the environmental attributes of everyday products can be the most difficult aspect of buying supplies and equipment. GSA, as a government agency and subject to the same environmental mandates as other agencies, continually updates contracts to ensure vendors offer products that work within environmental goals.


Many green products are currently available from GSA. Environmental products can be viewed and purchased from

the GSA *Advantage!*[®] and GSA Global Supply[™] online purchasing systems. To narrow a product search to a designated environmental attribute, customers are strongly encouraged to use the 'Advanced Search' feature in both systems.

These products can be requisitioned from GSA *Advantage!*[®] (www.gsaadvantage.gov), GSA's online shopping and ordering system. GSA *Advantage!*[®] provides access to thousands of contractors and millions of supplies and services through GSA MNAS contracts.

GSA *Advantage!*[®] features the Environmental Aisle, which is designed to allow direct access to the variety of environmental products GSA offers. The Environmental Aisle allows for easy searches of products by environmental attributes. It can be accessed at www.gsaadvantage.gov/environmental, or by clicking on the environmental special-category listing on GSA *Advantage!*[®] home page, as highlighted in green below.*

To enhance your shopping experience, an Environmental Specialty Category has been added to the GSA *Advantage!*[®] and the GSA Global Supply online systems. The Environmental Specialty Category allows federal buyers with
















Shop For Environmental Items

Enter a search term and select one or more environmental indicators to limit your search to specific environmental products. If you do not select any environmental indicators, the search will return all items matching at least one of the environmental indicators.

Look for: in

Matching the following criteria:

| | |
|--|---|
| <input type="checkbox"/>  Environmentally Friendly | <input type="checkbox"/>  ETV |
| <input type="checkbox"/>  Recycled Content | <input type="checkbox"/>  Non-Toxic Items |
| <input type="checkbox"/>  CPG Item | <input type="checkbox"/>  S.N.A.P. Approved |
| <input type="checkbox"/>  Energy Star Compliant | <input type="checkbox"/>  Green Seal of Approval |
| <input type="checkbox"/>  FEMP Energy Efficient items | <input type="checkbox"/>  CA Air Quality Compliant |
| <input type="checkbox"/>  PRIME Item | <input type="checkbox"/>  Bio-Based |
| <input type="checkbox"/>  NESHAP Compliant | |

[Find it!](#)

direct access to a variety of products that have attributes that are less detrimental to the environment. This is the latest effort to assist federal customers in making green purchases. Customers are encouraged to purchase products designated for preferred procurement. For some products, vendors denote whether the product meets the specifications and determine which symbols to display. GSA contracting specialists do quality assurance checks. If there is a question about a particular designation, customers should contact the schedule vendor for confirmation prior to placing an order.

The *GSA Advantage*® Spend Analysis Program (ASAP) is a centralized reporting tool designed to give authorized users access to *GSA Advantage*® sales and statistical data. Reports are designed to return data results based on user determined report time period (i.e., dates), procurement tools (i.e., schedules or stock) and additional criteria (i.e., socioeconomic factors). Anyone who has a *GSA Advantage*® User ID and Password or a Multiple Award Schedules Contract can use ASAP. Agency users will also need a valid federal or military email address, or a valid method of payment. To access ASAP, log in at <https://www.asap.gsa.gov>.

GSA Global Supply™ also offers environmentally friendly products.

To view and requisition products exclusively from GSA Global Supply™, go to www.GSAglobalsupply.gsa.gov. The GSA Global Supply™ ordering site, www.GSAglobalsupply.gsa.gov, also has the capability to perform queries for green products.

Both the online ordering site and the GSA Global Supply™ Catalog make it easy to identify environmental products by placing special icons next to products that contain one or more environmental attributes. The 2009 GSA Global Supply™ Catalog and www.GSAglobalsupply.gsa.gov are handy resources for identifying and acquiring office products, cleaning supplies, tools and hardware, wildland fire equipment, and other common-use commodities.

The screenshot shows the 'SHOP GSA GLOBAL SUPPLY' interface. At the top, there is a search bar with the text 'paper' entered. Below the search bar, there is a dropdown menu labeled 'In' with a list of categories: 'All Categories', 'Office Supplies', 'Furniture and Furnishings', 'Housewares and Cleaning', 'Industrial Supplies', 'Safety', 'Tools and Hardware', 'Wildland Fire Items', and '"Green" Items'. The '"Green" Items' category is highlighted. To the right of the dropdown menu, there are several 'GO' buttons. At the bottom of the interface, there is a button labeled 'ORDER FROM PARKED CARTS' with a 'GO' button next to it.

Ordering Details

Ordered products are shipped directly to customers, often within 24 hours. Use a government purchase card or direct billing through your AAC/DOCAAC.

Products can be ordered by phone at (800) 525-8027 or by fax at (800) 856-7057. The AbilityOne program (formerly JWOD) and Federal Prison Industries (UNICOR) supply items are represented in this catalog as well. GSA publications and catalogs can be requested at www.gsa.gov/cmls.

Products Overview/Additional Resources

For a summary of GSA's green product offering, please visit www.gsa.gov/gogreen.

The 2009 GSA Global Supply™ Environmental Products Catalog is available for download in Acrobat PDF format. Registered users of GSA's Centralized Mailing List Service (CMLS) can have the printed version delivered.

Vendors who are interested in selling products and services to the federal government should contact the Multiple Awards Schedule Help Desk at (800) 488-3111 to obtain information.

Printed catalogs and the ordering Web sites use symbols to identify the environmental attributes of the products.

Here is a quick-reference guide to those symbols.



Environmentally Friendly – Item contains environmental attributes or features such as water conserving, lead-free, etc. as described in the item detail.



Recycled – Item contains recycled content as described in the item detail (U.S. Environmental Protection Agency [EPA] item meeting EO 13101).



Comprehensive Procurement Guideline compliant – This product has been certified to meet or exceed the U.S. Environmental Protection Agency's Recovered Material Advisory Notice (RMAN) standard for recovered materials as specified in the Resource Conservation and Recovery Act Section 6002 Comprehensive Procurement Guideline.



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U.S. EPA Environmental Technology Verification – This product has been evaluated under the U.S. Environmental Protection Agency Environmental Technology Verification Program and found to be an innovative technical solution, beneficial to human health or the environment.



Non-Toxic item – Item is non-toxic.



Electronic Product Environmental Assessment Tool (EPEAT) registered item – Federal ordering activities are required to give preference to information technology (IT) products with one of the following three EPEAT ratings: bronze, silver or gold.



Bronze: Product meets all required criteria.



Silver: Product meets all required criteria plus at least 50% of the optional criteria that apply to the product type being registered.



Gold: Product meets all required criteria plus at least 75% of the optional criteria that apply to the product type being registered.



Label it “Environmentally Friendly” Recycled Laser and Inkjet Labels

- ▶ Made with 100% Post-Consumer Recycled Fiber
- ▶ Compatible with both laser and inkjet printers
- ▶ Processed Chlorine Free
- ▶ Benign recyclable adhesive meets the USPS specification USPS-2-1238 in order for it to be safely recycled
- ▶ Acid-free and lignin-free archival quality paper will not yellow
- ▶ High-quality, bright white label stock
- ▶ Minimizes printer jams
- ▶ Packaged in enviro-friendly packaging



| NSN | Description | Size | Labels per Sheet | Labels per Package | U/I |
|------------------|--|----------------|------------------|--------------------|-----|
| 7530-01-514-4904 | Address Label..... Same size as Avery® 5160™ | 1" x 2-5/8" | 30 | 3000 | BX |
| 7530-01-514-4913 | Address Label..... Same size as Avery® 5161™ | 1" x 4" | 20 | 2000 | BX |
| 7530-01-514-4911 | Return Address Label..... Same size as Avery® 5167™ | 1/2" x 1-3/4" | 80 | 8000 | BX |
| 7530-01-514-4905 | File Folder Label..... Same size as Avery® 5366™ | 2/3" x 3-7/16" | 30 | 1500 | BX |
| 7530-01-514-4903 | Shipping Label..... Same size as Avery® 5163™ | 2" x 4" | 10 | 1000 | BX |

Additional sizes and package configurations available

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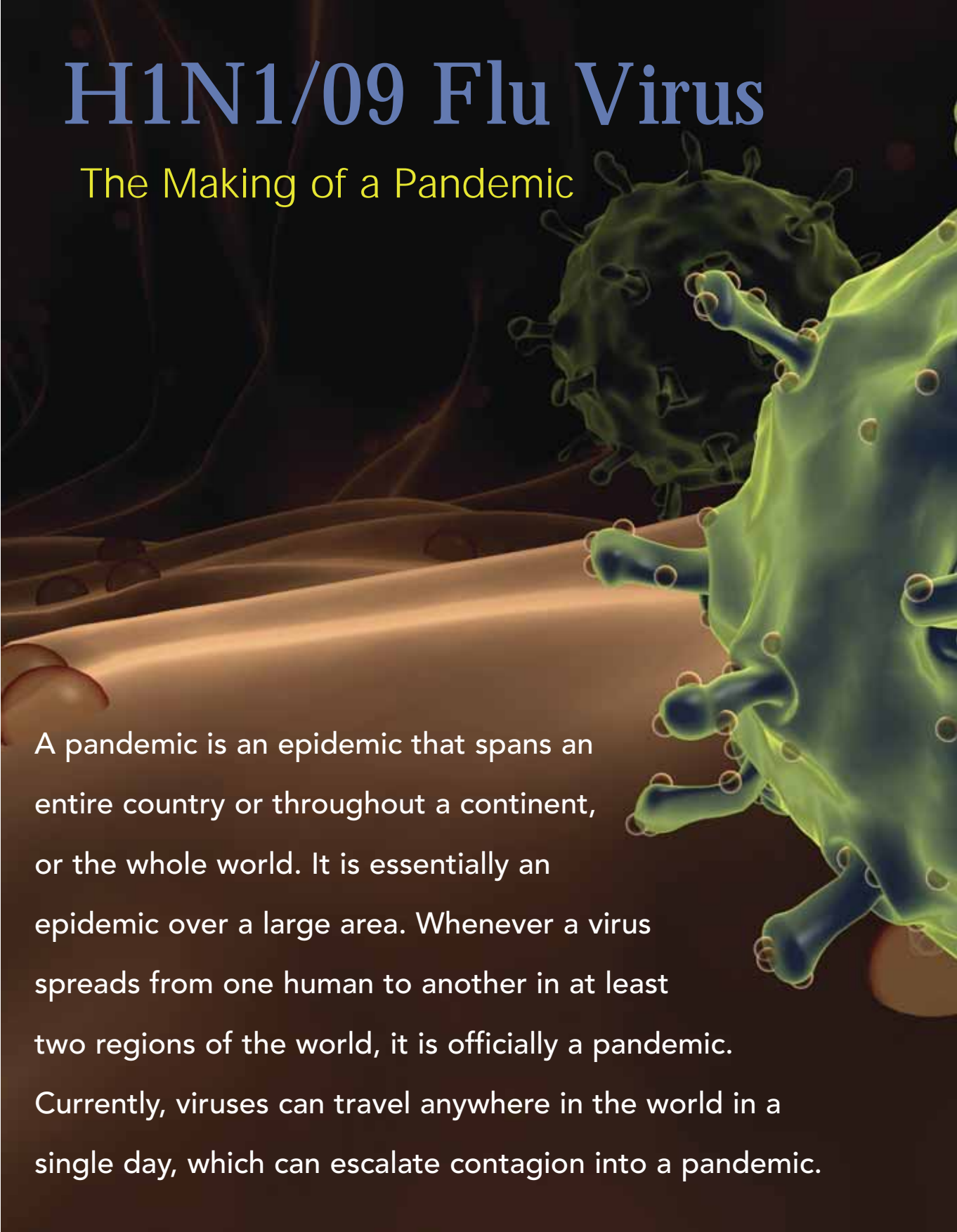
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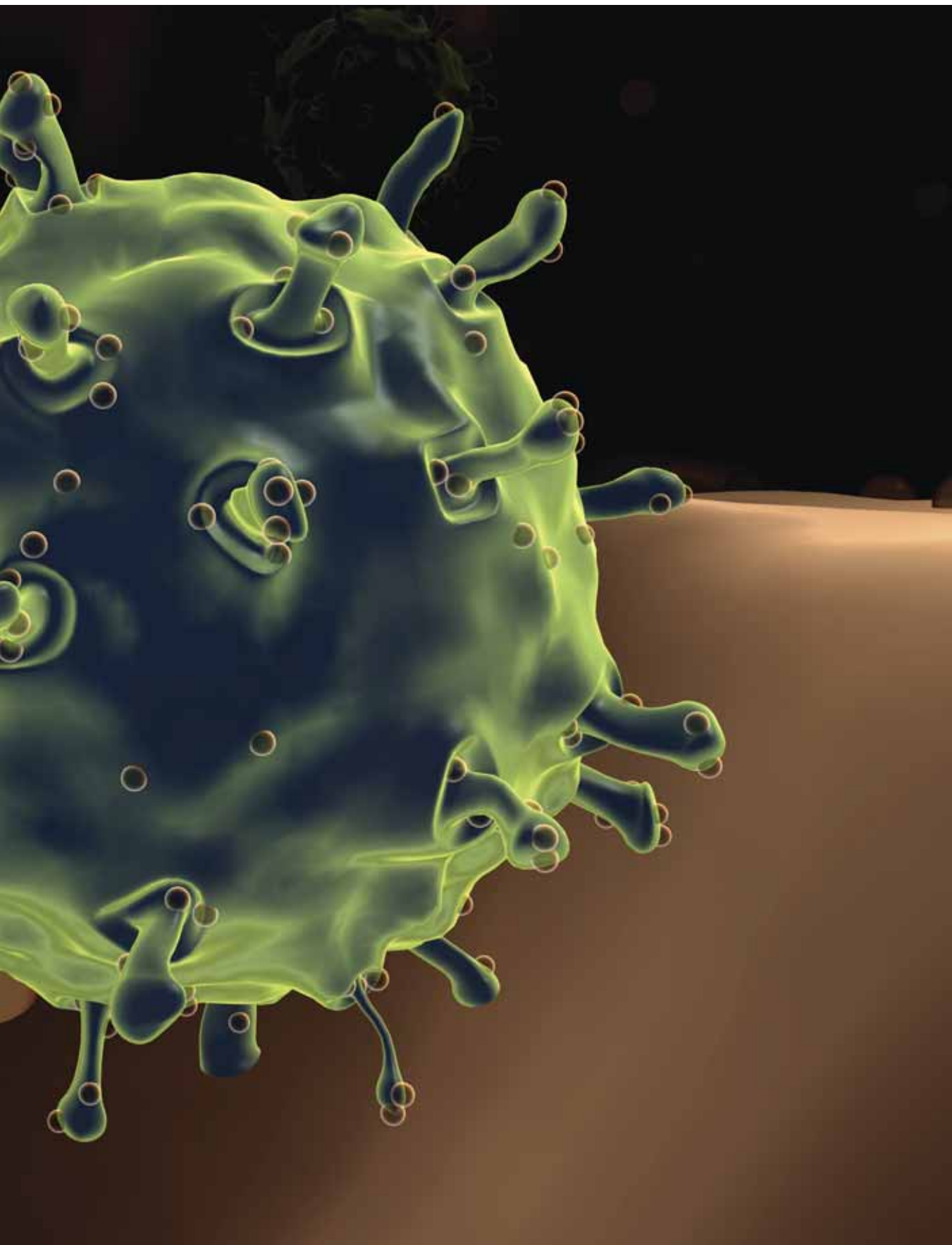
Created with pride by Americans who are Blind or have other Severe Disabilities™

H1N1/09 Flu Virus

The Making of a Pandemic



A pandemic is an epidemic that spans an entire country or throughout a continent, or the whole world. It is essentially an epidemic over a large area. Whenever a virus spreads from one human to another in at least two regions of the world, it is officially a pandemic. Currently, viruses can travel anywhere in the world in a single day, which can escalate contagion into a pandemic.



Pandemics Throughout History

The first flu pandemic was recorded in 1580 – since then, pandemics occur every 10 to 30 years. All strains of flu began in China when the duck was domesticated, which introduced viruses into the farmyard. It is historically believed that influenza pandemics have probably occurred during at least the previous four centuries. During the 20th Century, three pandemics and several pandemic scares took place.

1918 Spanish Flu

The “Spanish Flu” pandemic is the catastrophe all modern pandemics are measured against. The virus (which predated antibiotics and antiviral medications) was initially identified at Camp Funston, Kansas in March 1918. By October of that year, the Spanish Flu had escalated to a worldwide pandemic infecting approximately one-third of the world’s population and spanning all continents – which resulted in 50 million deaths. Between September 1918 and April 1919, 500,000 deaths from the flu occurred in the United States. Many people died from Spanish Flu quickly; in fact, some people who felt well in the morning became sick by noon and were dead by nightfall. Those who did not succumb to the disease within the first few days often died of complications from the flu (such as pneumonia) caused by bacteria. An unusual aspect of the Spanish flu was its ability to kill young adults. The reasons for this remain uncertain. With the Spanish flu, mortality rates were high among healthy adults, as well as the usual high-risk groups. The attack rate and mortality was highest among adults 20 to 50 years old. Spanish Flu hit the youngest the hardest, filling lungs with liquid, causing the victims to drown. A flu virus

displaying the severity of Spanish flu has not been seen since. After the Center for Disease Control studied the virus (which had been preserved in the Alaskan permafrost) they reconstructed it and determined the Spanish Flu was a type of H1N1 virus.

Asian Flu

In February 1957, the Asian influenza pandemic was first identified in the Far East. Immunity to this strain was rare in people less than 65 years of age, and a pandemic was predicted. In preparation, vaccine production began in late May 1957, and health officials increased surveillance for flu outbreaks.



Unlike the virus that caused the 1918 Spanish Flu pandemic, the 1957 pandemic virus was quickly identified, due to advances in scientific technology. Vaccine was available in limited supply by August 1957. The virus came to the U.S. quietly, with a series of small outbreaks over the summer of 1957. When U.S. children went back to school in the fall, they spread the disease in classrooms and brought it home to their families. Infection rates were highest among school children, young adults, and pregnant women in October 1957. Most influenza-and pneumonia-related deaths occurred between September 1957 and March 1958. The elderly had the highest rates of death.

By December 1957, the worst seemed to be over. However, during January and February 1958, there was another wave of illness among the elderly. This is an example of the potential “second wave” of infections that can develop during a pandemic. The disease infects one group of people first, infections appear to decrease and then infections increase in a different part of the population. Although the Asian flu pandemic was not as devastating as the Spanish flu, about 69,800 people in the United States died.

Hong Kong Flu Scare

The Hong Kong influenza scare was initially detected in Hong Kong early in 1968. The United States’ first reported cases were detected as early as September of that year, but illness did not become widespread in the U.S. until December. Deaths from this virus peaked in December 1968 and January 1969. Those over the age of 65 were most likely to die. The same virus returned in 1970 and 1972. The number of deaths between September 1968 and March 1969 for this pandemic was 33,800, making it the mildest pandemic in the 20th century.



There could be several reasons why fewer people in the U.S. died due to this virus. First, the Hong Kong flu virus was similar in some ways to the Asian flu virus that circulated between 1957 and 1968. Earlier infections by the Asian flu virus might have provided some immunity against the Hong Kong flu virus that may have helped to reduce the severity of illness during the Hong Kong pandemic. Second, instead of peaking in September or October, like pandemic influenza had in the previous two pandemics, this pandemic did not gain momentum until near the school holidays in December. Since children were at home and did not infect one another at school, the rate of influenza illness among schoolchildren and their families declined. Third, improved medical care and antibiotics that are more effective for secondary bacterial infections were available for those who became ill.



1977 Russian Flu Scare

In May 1977, influenza A/H1N1 viruses isolated in northern China, spread rapidly, and caused epidemic disease in children and young adults (younger than 23 years) worldwide. The 1977 virus was similar to other A/H1N1 viruses that had circulated prior to 1957. (In 1957, the A/H1N1 virus was replaced by the new A/H2N2 viruses.) Because of the timing of the appearance of these viruses, persons born before 1957 were likely to have been exposed to A/H1N1 viruses and to have developed immunity against A/H1N1 viruses. Therefore, when the A/H1N1 reappeared in 1977, many people over the age of 23 had some protection against the virus and it was primarily younger people who became ill from A/H1N1 infections. By January 1978, the virus had spread around the world, including the United States. Because illness occurred primarily in children, this event was not considered a true pandemic. Vaccine

containing this virus was not produced in time for the 1977–78 season, but the virus was included in the 1978–79 vaccine.

1997 Bird Flu

In 1997, Hong Kong saw the first case of Avian (bird) Flu crossing the bird-to-human species barrier. It is speculated that the Hong Kong Avian Flu outbreak originated from a northern region of Hong Kong where chickens had been dying and routine testing of poultry had verified the presence of the Avian Flu virus subtype H5N1.

The first case of Avian Flu in humans was a three-year-old boy in May 1997. By August, the boy's specimen had been identified as a type of influenza previously unseen in human beings: Type A Influenza virus H5N1. The news shocked the health community, because H5N1 was an Avian Flu subtype and had not been known to infect a human being. Investigators found out that the boy had attended a daycare that kept chicks as pets. By December, more and more cases of Avian Flu cases in humans were reported. Investigators determined the one connection among the victims was that most of them had visited a local live-poultry market the week before falling ill. From samples of bird feces and blood from the nation's poultry markets, officials detected the H5N1 Avian Flu subtype – the virus had indeed spread throughout the nation's live-poultry markets.

With the Avian Flu's infected-mortality rate reaching 63 percent, health organizations made their recommendations to Hong Kong authorities: Slaughter every bird within its borders. The evidence presented was clear: Since May, Avian Flu had affected birds in a small region of the nation, and by December, the infection was widespread in farms across the tiny island. At that time, four people had died from the Avian Flu. Hong Kong officials organized a nationwide cull

of all domestic poultry in the island nation including chickens, ducks, geese, quails, and pigeons, which would be initiated within a few days. The massive undertaking to destroy every chicken in Hong Kong involved as many as 2,000 workers from at least seven government agencies. They went about conducting their duties in Hong Kong's 160 chicken farms and about 1000 live poultry markets. The cull was extended to all poultry at retail and wholesale outlets.

By the time the cull was completed, new human infections had ceased overnight. However, there would be several new cases. At the end of the whole fiasco by March, 1998, when the government stated that it had controlled the outbreak of the disease, there were 18 people who had fallen ill to the Avian Flu, of which, six of whom died.

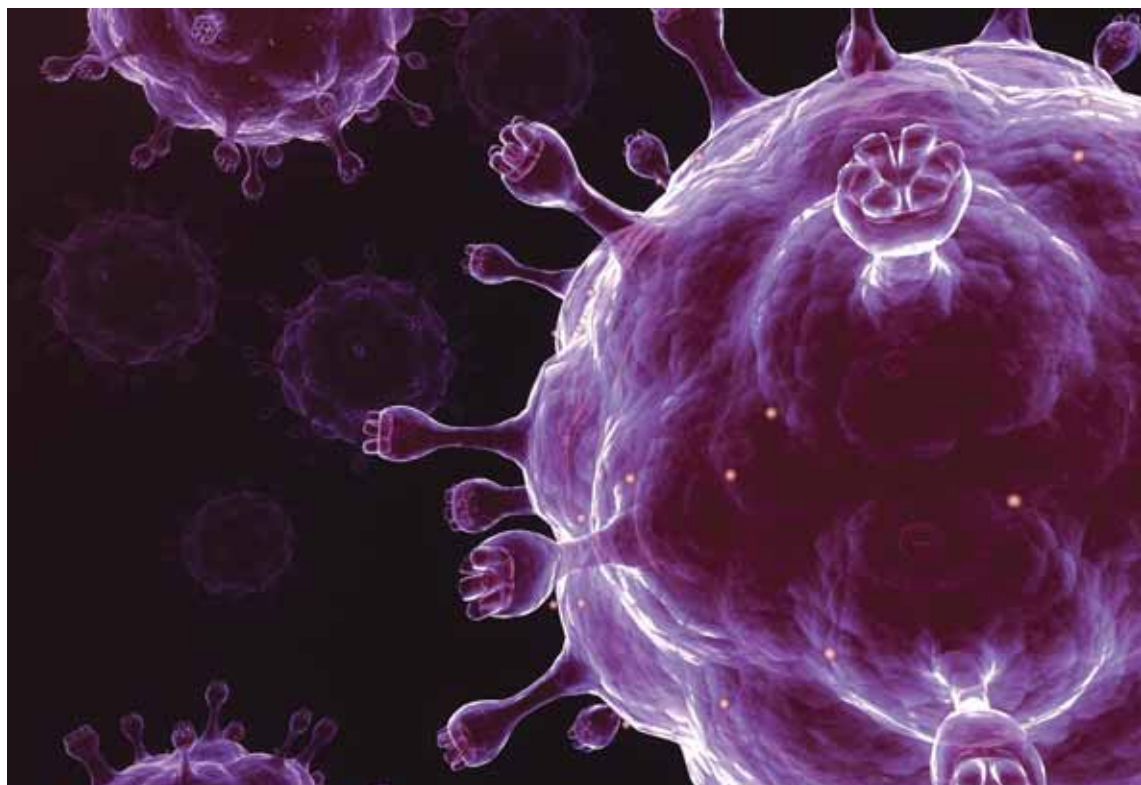
2003 Severe Acute Respiratory Syndrome (SARS)

SARS is a respiratory disease in humans which is caused by the SARS coronavirus (SARS-CoV). There has been one near-pandemic to date, between November 2002 and July 2003, with 8,096 known infected cases and 774 deaths (a case-fatality rate of 9.6 percent)

worldwide being listed in the World Health Organization's (WHO) concluding report (April 21, 2004). Within a matter of weeks in early 2003, SARS spread from the Guangdong province of China and rapidly infected individuals in nearly 40 countries around the world.

Mortality by age group, as of May 8, 2003, is below one percent for people aged 24 or younger, 6 percent for those 25 to 44, 15 percent in those 45 to 64 and more than 50 percent for those over 65. For comparison, the case fatality rate for influenza is usually around 0.6 percent (primarily among the elderly) but can rise as high as 33 percent in locally severe epidemics of new strains. The mortality rate of the primary viral pneumonia form is about 70 percent.

As of May 2006, the spread of SARS has been fully contained, with the last infected human case seen in June 2003 (disregarding a laboratory induced infection case in 2004). However, SARS is not claimed to have been eradicated (unlike smallpox), as it may still be present in its natural host reservoirs (animal populations) and may potentially return into the human population in the future.



Pandemic Flu Phases

source: <http://www.who.int/en/>

In nature, influenza viruses circulate continuously among animals, especially birds. Even though such viruses might theoretically develop into pandemic viruses, in Phase 1 no viruses circulating among animals have been reported to cause infections in humans.

In Phase 2 an animal influenza virus circulating among domesticated or wild animals is known to have caused infection in humans, and is therefore considered a potential pandemic threat.

In Phase 3, an animal or human-animal influenza reassortant virus has caused sporadic cases or small clusters of disease in people, but has not resulted in human-to-human transmission sufficient to sustain community-level outbreaks. Limited human-to-human transmission may occur under some circumstances, for example, when there is close contact between an infected person and an unprotected caregiver. However, limited transmission under such restricted circumstances does not indicate that the virus has gained the level of transmissibility among humans necessary to cause a pandemic.

Phase 4 is characterized by verified human-to-human transmission of an animal or human-animal influenza reassortant virus able to cause "community-level outbreaks." The ability to cause sustained disease outbreaks in a community marks a significant upwards shift in the risk for a pandemic. Any country that suspects or has verified such an event should urgently consult with WHO so that the situation can be jointly assessed and a decision made by the affected country if implementation of a rapid pandemic containment operation is warranted. Phase 4 indicates a significant increase in risk of a pandemic but does not necessarily mean that a pandemic is a forgone conclusion.

Phase 5 is characterized by human-to-human spread of the virus into at least two countries in one WHO region. While most countries will not be affected at this stage, the declaration of Phase 5 is a strong signal that a pandemic is imminent and that the time to finalize the organization, communication, and implementation of the planned mitigation measures is short.

Phase 6, the pandemic phase, is characterized by community level outbreaks in at least one other country in a different WHO region in addition to the criteria defined in Phase 5. Designation of this phase will indicate that a global pandemic is under way.

During the post-peak period, pandemic disease levels in most countries with adequate surveillance will have dropped below peak observed levels. The post-peak period signifies that pandemic activity appears to be decreasing; however, it is uncertain if additional waves will occur and countries will need to be prepared for a second wave.

Previous pandemics have been characterized by waves of activity spread over months. Once the level of disease activity drops, a critical communications task will be to balance this information with the possibility of another wave. Pandemic waves can be separated by months and an immediate "at-ease" signal may be premature.

In the post-pandemic period, influenza disease activity will have returned to levels normally seen for seasonal influenza. It is expected that the pandemic virus will behave as a seasonal influenza A virus. At this stage, it is important to maintain surveillance and update pandemic preparedness and response plans accordingly. An intensive phase of recovery and evaluation may be required.

The Beginnings of H1N1

1976 and the Guillome Barre Syndrome

40 million Americans are administered the original vaccine for the swine flu virus in 1976. As a result, 542 individuals who were given the vaccine developed a rare disease called Guillome Barre syndrome. The syndrome is a rare neurological disorder leading to temporary and in some cases permanent paralysis. In the wake of a full-on outbreak of swine flu, these may have been acceptable risks, but in 1976, the feared outbreak never materialized, calling into question the actions of the government to vaccinate so quickly. Looking back, the problem of distributing mass vaccinations is a double-edged sword; official channels are easy targets of not responding to a crisis with enough vigor or responding too aggressively, causing panic, and being seen as a waste of taxpayer dollars and government resources. But preventative measures often must be taken.

Outbreak

April 2009 saw the beginnings of what we now know as H1N1/09, which is the planet's first full-fledged pandemic in 41 years. The government took measures to contain it, but it spread very quickly – and within four weeks 105 cases appeared in the countries of United States, France, Canada, United Kingdom, Norway, and New Zealand. On June 11, 2009, H1N1/09 reached pandemic status, the sixth and final phase of escalation. U.S. federal agriculture officials have



stated that contrary to the popular belief that the H1N1/09 pandemic arose on factory farms in Mexico, it probably emerged in swine in Asia, and then traveled to North America via a human host. There was no method to prove the officials' theory, but they stated that there is no evidence that this new virus – which combines Eurasian and North American genes – has ever circulated in North American pigs, while there is tantalizing evidence that a closely related 'sister virus' has circulated in Asia. According to researchers, movement of live pigs between Eurasia and North America is likely to have facilitated the mixing of diverse swine influenza viruses, leading the new H1N1 strain.

Current Status of H1N1/09

The November 8, 2009 worldwide update by the United Nations' World Health Organization (WHO) states that "206 countries and overseas territories/communities have officially reported (more than) 503,536 laboratory confirmed cases of the influenza pandemic H1N1 infection, including 6,250 deaths."

Other Affected Species

Because of its “swine flu” nickname, it should come to no surprise that H1N1/09 affects pigs as well as humans. In October 2009, a ferret in Oregon also exhibited flu symptoms and was confirmed to have contracted the H1N1/09 virus from its owner. In November 2009, a case of novel H1N1/09 was confirmed in a household cat. In late August 2009, the government of Chile discovered that the human H1N1/09 virus had jumped, not mutated, to turkeys. Top flu and animal-health experts with the WHO and the CDC were closely monitoring the situation. They found the infected turkeys suffered only mild effects, easing concerns about a potentially dangerous new development. Virus experts are concerned that a more dangerous and easily transmitted strain could emerge if H1N1/09 combines again with avian flu, which at present is far more virulent but much less contagious to humans. By October 2009, another outbreak at a turkey breeder was identified in Ontario, Canada.

So far, no evidence has suggested that animals play any particular role in the epidemiology or the spread of the pandemic H1N1 2009 virus among humans. Instead, investigations led by competent national authorities point to possible human-to-animal transmission in most cases.

About H1N1/09

While “swine flu” is a popular term for H1N1/09, it is inaccurate – because H1N1/09 flu is made of swine, avian (bird) and human components. The virus was originally referred to as “swine flu” because laboratory testing showed that many of its genes were quite similar to flu viruses that normally occur in swine in North America. But further study showed that this new virus is remarkably different from what normally circulates in North American pigs. It is comprised of two genes from flu viruses that normally



circulate in pigs located in Europe and Asia, along with avian genes and human genes. Scientists call this mixture a “quadruple reassortant” virus.

H1N1/09 Transmission

A pandemic, by definition, requires human-to-human transmission. The H1N1/09 virus is believed to spread among humans in much the same way as the seasonal flu. The most common way it spreads is through the coughs and sneezes of infected people. One sneeze contains more than 100,000 viral particles, and just one tiny droplet transferred from one person to another can create the beginnings of a global pandemic. And it is also likely that H1N1/09 can be spread by touching a contaminated surface or the hand of an infected person and then touching one’s mouth or nose (although there is no direct evidence for this).

Contagion and Virulence

H1N1/09 is more contagious than seasonal flu, and the infected are contagious for a longer period of time than originally thought. The U.S. Center for Disease Control had recommended that people should wait at least a day after their fever subsides (usually three to four days after the onset of symptoms) before resuming normal activities, but it has been discovered that the infected can shed the virus for several days after that. And the contagiousness of the virus may change as it mutates.

The virulence of H1N1/09 virus is mild and the mortality rates are very low (about 0.1%). In mid-2009 the U.S. Centers for Disease Control and Prevention (CDC) noted that most infections were mild, similar to seasonal flu, and that recovery tended to be fairly quick. The number of deaths as of September 2009 is a tiny fraction of the annual number of deaths from seasonal flu. From April 2009 to November 2009, in the United States, 3,900 people have died of the H1N1/09 pandemic virus, whereas 800 people



per week die from the common flu. The death rate of diagnosed H1N1/09 in the United States is less than 0.02%.

Vaccination

There are two kinds of 2009 H1N1 vaccines being produced. A 2009 H1N1 flu shot — an inactivated vaccine (containing killed virus) that is given with a needle, usually in the arm. The indications for who can get the 2009 H1N1 flu shot are the same as for seasonal flu shots. The flu shot is approved for use in people 6 months of age and older, including healthy people, people with chronic medical conditions, and pregnant women. The same manufacturers who produce seasonal flu shots are producing 2009 H1N1 flu shots for use in the United States this season. The 2009 H1N1 flu shot is being made in the same way that the seasonal flu shot is made.

The 2009 H1N1 nasal spray flu vaccine — a vaccine made with live, weakened viruses that do not cause the flu (sometimes called LAIV for “live attenuated influenza vaccine”). The indications for who can get the 2009 H1N1 nasal spray vaccine are the same as for seasonal nasal spray vaccine. LAIV is approved for use in healthy people two years to 49 years of age who are not pregnant. The nasal spray vaccine for use in the United States is being made by MedImmune, the same company that makes the seasonal nasal spray vaccine called “FluMist®.” The H1N1/09 nasal spray vaccine is being made in the same way as the seasonal nasal spray vaccine.

About two weeks after vaccination, antibodies that provide protection against 2009 H1N1/09 influenza virus infection will develop in the body. (The 2009 H1N1/09 vaccine will not protect against seasonal influenza viruses.)

Evolutionary Potential

New diseases are, by definition, poorly understood. And flu viruses are notorious for their fast mutation and unpredictable behavior, making them especially elusive. Flu pandemics must be taken seriously because they have a great capacity to spread rapidly to every country in the world. And, from past experience, we know that in affluent countries flu may cause mild disease, but in developing countries disease becomes more severe with higher mortality.

On May 22, 2009, WHO Director-General, Dr. Margaret Chan, stated that the H1N1/09 virus must be closely monitored in the southern hemisphere, because it could merge with ordinary seasonal flu and alter in unpredictable ways. Dr. Chan also made two positive points: (1) The world is better prepared for an influenza pandemic than at any time in history; and (2) For the first time in history, the evolution of a pandemic can be tracked in real-time. On another positive note, the preparedness measures that resulted from the 2004 threat of H5N1 Avian Flu were an investment, and now humankind is benefitting from this investment as we contend with H1N1/09. While viruses evolve, so does human knowledge about how to deal with and overcome them.

Late in the summer of 2009, U.S. health officials said that the swine flu isn't yet mutating to become more dangerous, but they are closely tracking that as the virus continues to circle the globe. For the time being, WHO will be tracking the pandemic at the epidemiological, clinical, and virological levels. Historically speaking, pandemic viruses have evolved from season to season, and a current strain might become more severe or transmissible as time moves on. Keeping the H1N1/09 virus under control will rely on international cooperation and commitment to engage in proper monitoring of changes in H1N1/09's behavior, which will aid in both vaccinations and interpreting illness patterns.



Advice from the CDC, everyday steps to protect your health:

- Cover your nose and mouth with a tissue when you cough or sneeze. Throw the tissue in the trash after you use it.
- Wash your hands frequently with soap and water. If soap and water are not available, use an alcohol-based hand rub.
- Avoid touching your eyes, nose, or mouth. Germs spread to the internal body this way.
- Try to avoid close contact with sick people.
- If you are sick with flu-like illness, CDC recommends that you stay home for at least 24 hours after your fever is gone, except to get medical care or for other necessities. (Your fever should be gone without the use of a fever-reducing medicine.) Keep away from others as much as possible to keep from making others sick.
- Follow public health advice regarding school closures, avoid crowds, and enact other social-distancing measures. If you go in public and choose to wear a surgical mask, keep in mind that one helps prevent the spread of the flu, but it does not protect the wearer.
- Be prepared in case you get sick and need to stay home for a week or so; a supply of over-the-counter medicines, alcohol-based hand rubs (for when soap and water are not available), tissues and other related items could help you avoid the need to make trips out in public while you are sick and contagious.



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The Federal Fleet Policy Council, GSA's Office of Governmentwide Policy, the Interagency Committee for Aviation Policy, and GSA Fleet are proud to host FedFleet 2010, the 10th National Motor Vehicle and Aviation Workshops and Exposition. This prestigious conference will be held July 13 – 15 at the Phoenix Convention Center in Phoenix, Arizona.

FedFleet 2010 will include the GSA Automotive Federal Vehicle Standards breakout sessions and vendor presentations. Also included in the agenda are extensive Aviation Workshop sessions and an all-day Basic Fleet Management class. This comprehensive collection of fleet management, automotive procurement and aircraft related educational sessions truly makes FedFleet 2010 a one-stop experience for Fleet and Aviation Management professionals.

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Comprehensive Professional Energy Services



GSA's Newest Blanket Purchase Agreement (BPA)

Blanket Purchase Agreements (BPAs) have proven to be a great tool for the federal acquisition community to share best practices, to find economies of scale, to strategically source products and services. The success of BPAs with office supplies, telecommunication expense management, and package delivery services makes the introduction of a new BPA for Energy Management Services an exciting development.

GSA's Comprehensive Professional Energy Services BPAs are a great solution to help maximize energy efficiency. The CPES BPA gives agencies the ability to leverage their buying power and obtain environmentally friendly and energy efficiency management, auditing, planning and training services using a streamlined acquisition process.



GSS recently established Comprehensive Professional Energy Services (CPES) Blanket Purchase Agreements (BPA). Currently, the number of BPA holders per region varies between 15-18 companies per region. In some cases BPA holders have established Contractor Teaming Agreements, creating the opportunity for additional companies to provide services under the BPA. All BPA holders are qualified to provide federal agencies with support as they plan and implement federal mandates such as Executive Order 13423 and 13514 or manage energy projects funded by the American Recovery and Reinvestment Act (ARRA) of 2009. Under the ARRA, 32 federal government agencies and departments, including GSA, were apportioned over \$53 billion to implement improvements that will ensure compliance with federal initiatives in an environmentally sustainable manner.

Some of the services available through the BPA include: comprehensive energy analysis and modernization projects; building commissioning services; metering and advanced metering; energy and water audits and analysis; turn-key

renewable energy solutions; energy choice analysis; and feasibility studies and complete support, including billing consolidation and management; consulting; training; and other services on energy-efficient certifications such as Leadership in Energy and Environmental Design (LEED®).

The CPES BPA has generated a significant amount of interest from organizations such as: the White House Council on Environmental Quality, the Office of Federal Procurement Policy, GSA's Office of Government-wide Policy and GSA's Public Building Service. Public awareness materials are being developed to help publicize this BPA. Webinars, email blasts, informational training material, and conference participation are among the methods that will be used to make sure federal government agencies are aware of this BPA. Audiences targeted by these efforts include other federal agencies and departments – senior leaders, program managers and ordering officials, contractors, and GSA's marketing network.

Agencies using the CPES BPAs will be able to obtain services using an efficient and streamlined acquisition approach. The BPAs were structured to allow:

- a. Outstanding Value - BPAs have proven to be a great tool for the federal acquisition community to share best practices and to find economies of scale.
- b. Innovative Solutions from Energy Experts - The CPES BPA was created using Contractor Teaming Agreements thus allowing customers access to total energy solutions from companies with specialized expertise in their fields.
- c. Comprehensive Services from a Single Task Order - Agencies may obtain energy services and incidental Other Direct Costs (ODCs) using a single, performance-based task order.
- d. Best Value Awards - BPA orders are awarded based on best value.
- e. Contractor Excellence - The CPES BPA is structured to allow contractors to be easily added and removed. Periodically, contractors will be added to the BPA, maximizing the number of participants, levels of expertise, and location of vendors.
- f. Proven Acquisition Excellence - The CPES BPA was established and will be administered using GSA's proven acquisition processes to ensure compliance and efficiency. Reporting requirements have already been established.
- g. Support Presidential Initiatives - ARRA funds and other legislative mandates result in the need for a larger workforce to accomplish the goals within the required timeframe. BPA contractors indicated that their services under this BPA could result in the creation of over 10,000 new jobs annually.

As stated in Executive Order 13514 dated October 5, 2009, "...In order to create a clean energy economy that will increase our Nation's prosperity, promote energy security, protect the interests of taxpayers, and safeguard the health of our environment, the federal government must lead by example." General Services Administration



has accepted that challenge and established these BPAs to ensure agencies have readily available tools for achieving Federal goals for greenhouse gas emissions reduction, energy efficiency, and water conservation; and documenting the economic benefits of environmental performance. The CPES BPA Holders are committed to providing innovative, cost effective, forward looking, and compliant solutions.

When you need solutions to make your world more energy efficient, GSA FAS Comprehensive Professional Energy Services BPAs are your source.

Visit www.gsa.gov/energyservicesbpa to learn more.

GSA Contact:
Angela Lehman
(703) 605-9541

Synopsis of BPA Holders Per Region

| GSA Region Name | GSA Region Number | Number of BPA Holders* |
|--|-------------------|------------------------|
| New England | 1 | 17 |
| Northeast and Caribbean | 2 | 17 |
| Mid Atlantic | 3 | 18 |
| Southeast Sunbelt Region | 4 | 17 |
| Great Lakes | 5 | 16 |
| Heartland | 6 | 16 |
| Greater Southwest | 7 | 16 |
| Rocky Mountain | 8 | 17 |
| Pacific Rim | 9 | 16 |
| Northwest/Arctic | 10 | 17 |
| National Capital Region/Central Office | 11 | 17 |

Periodically, GSA will establish additional BPAs.

Currently there are 6 of the BPA Holders are designated as small businesses. Seven of the BPA Holders have established Contractor Teaming Arrangements.

A Wide Range of Services

The Comprehensive Professional Energy Services BPA will include a comprehensive list of services. This list is derived from the following SINs and consolidated contracts.

- a. 871-202 Comprehensive Energy Management Solution
- b. 871-203 Energy Management Training
- c. 871-204 Metering Services
- d. 871-205 Energy Program Support Services
- e. 871-206 Building Commissioning Services
- f. 871-207 Energy Audit Services
- g. 871-208 Resource Efficiency Management
- h. 871-209 Innovations in Energy
- i. 871-210 Water Conservation Services
- j. 003-97 Ancillary Repair and Alterations

Selection, Performance and Competition Guiding BPA-holder Selection

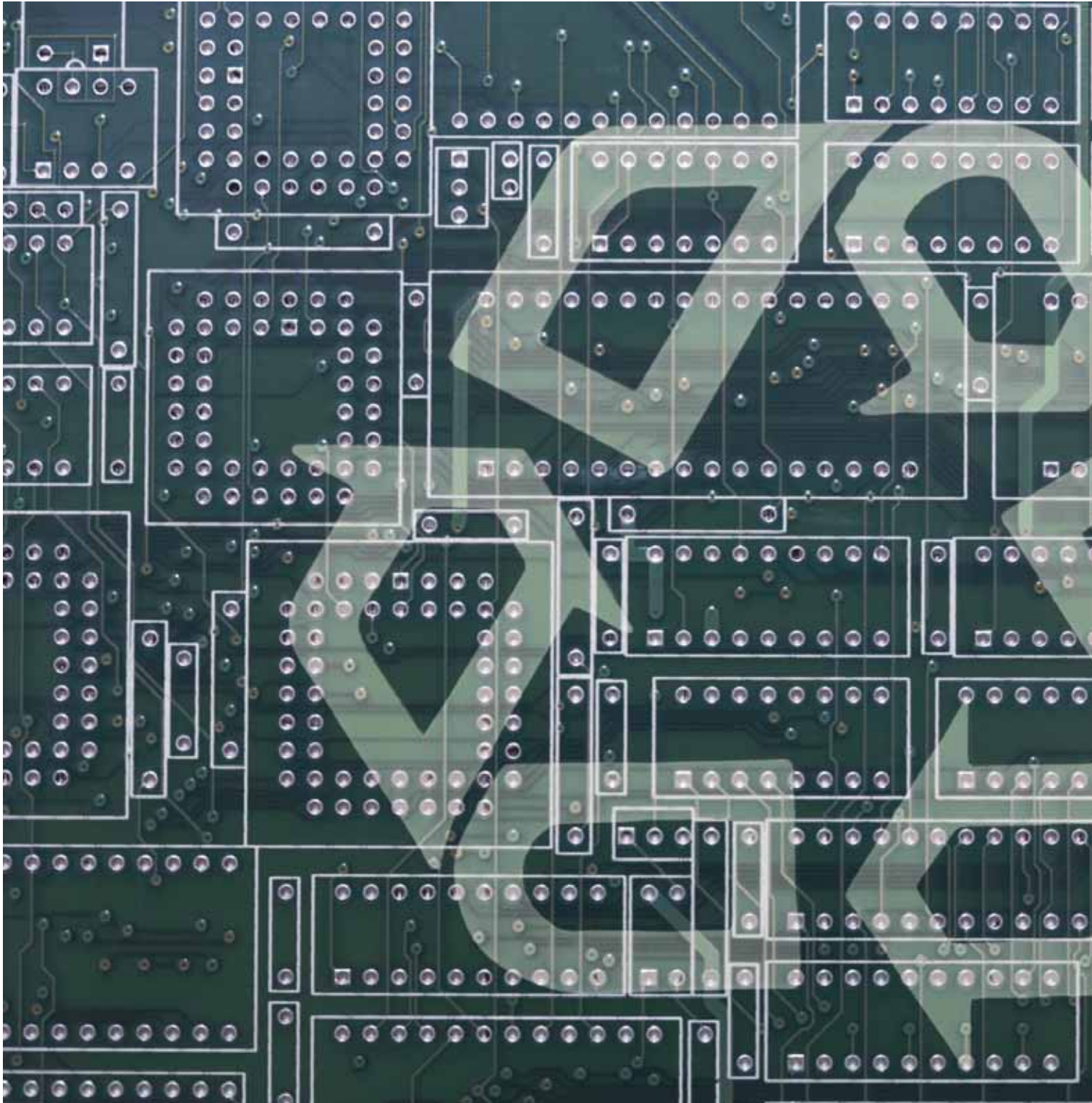
The Energy Management Services BPA is actually *several* regional BPAs, each having multiple BPA holders. The BPA is structured to allow contractors to be easily added and removed. Contractors will be added to the BPA to meet increasing demand and to replace other contractors removed from the BPA. When contractors do not meet the standards of the performance metrics they will be removed from the BPA. This also occurs when the contractor's MAS term ends. The BPA holders participate with one-year base period, two one-year options, with two one-year options that can be earned

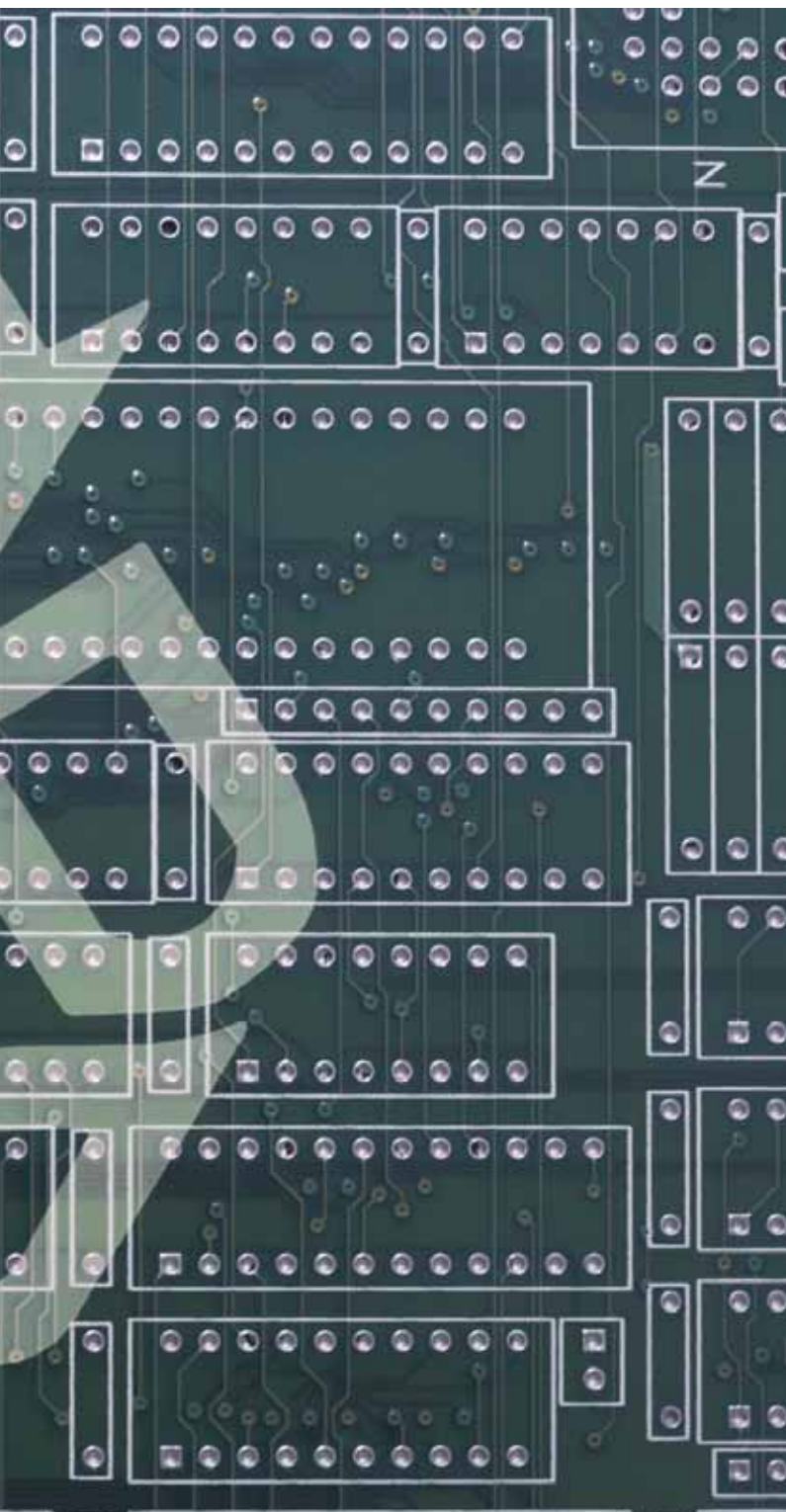
The BPA also optimizes socioeconomic participation with either a direct or sub-contracting relationship.

For more information, such as a current list of BPA holders, GSA regions where services are provided, and ordering information, see www.gsa.gov/energyservicesbpa.

Green IT

GSA's Information Technology
Products and Solutions





As energy demands increase and environmental regulations become more stringent, federal, state and local agencies are faced with the challenge of operating compliant, more efficient, and greener organizations while using fewer resources. Though this may seem incongruous, GSA offers Information Technology Products and Solutions through a variety of contracting vehicles to help agencies meet their goals.



GSA's acquisition solutions offer direct access to information technology products and services to meet both federal and agency-specific environmental goals. Advancements in technology have allowed GSA to offer more energy efficient, sustainable, green products. Agencies can obtain refurbished IT products through several purchasing vehicles or donation programs. GSA also offers IT services and solutions to help agencies' reduce their carbon footprint and reduce travel costs while staying connected.

The following is a sampling of what GSA offers related to environmentally responsible Information Technology (IT) products and solutions:

- **Recycle, Reuse or Refurbish:**
 - o Lease, Rental, or Purchase of Used or Refurbished IT Equipment
 - o Donation of Excess Computers through the Computers for Learning (CFL) program.
 - o Surplus IT Property through GSA's Surplus Property program
 - o Requisition of IT Products already in Stock under the Global Supply Program
- **Energy Efficiency:**
 - o Energy Star Compliant IT Products
 - o EPEAT Registered IT Hardware and Software

- **Reduction of Carbon Footprint and Travel-Related Environmental Impact:**
 - o Web Hosting
 - o Webcasts/Webinars
 - o Teleconferencing
 - o IT Tele-work Solutions
- **Sustainability, Virtualization and Scalability:**
 - o Professional Systems Integration Services
 - o Data Management Services
 - o Cloud Computing

Agencies can also make less of an impact by conducting research and ordering through GSA's eTools suite (GSA*Advantage!*[®], eBay and eLibrary). Environmentally-friendly products are listed on GSA*Advantage!*[®], www.gsaadvantage.gov, and offered by GSA Global Supply[™], using environmental attribute symbols. These symbols expedite the identification of products that meet specific guidelines. In addition, GSA offers IT related environmental solutions and services. Whether it is ordering from MAS IT Schedule 70 contracts, Governmentwide Acquisition Contracts (GWAC), Network Services Contracts, or other GSA solutions, GSA can meet your green need.

For more information on what GSA offers related to Information Technology, Green Products and Services, and state and local programs, visit www.gsa.gov/technology, www.gsa.gov/green, or www.gsa.gov/stateandlocal.



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Green Leadership

BOP's Greening of the Federal Prison System

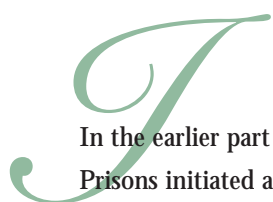


In the course of its mission to operate efficient, effective prisons and provide inmates the opportunity for self improvement, the Federal Bureau of Prisons is investing in green technologies, employing energy and resource saving



practices, and offering opportunities for inmate training through its recycling and biodiesel operations.

For years now, the Federal Bureau of Prisons has been environmentally ambitious and a leader in energy conservation, renewable energy, and sustainable practices. As evidence of its pioneering efforts, the bureau was recognized in 2007 with the Presidential Award in Federal Energy Management for its success implementing energy-efficiency policies and practices throughout its organization.



In the earlier part of the decade, the Federal Bureau of Prisons initiated an energy outreach program that educates each of its regions' staff members about energy conservation and ensures collaboration among community leaders and businesses to facilitate knowledge about federal efforts regarding energy conservation, renewable energy, and sustainable practices.

The Federal Bureau of Prisons also conducts outreach activities within its own facilities. Low-risk inmates have the opportunity to receive education and training on renewable technologies through a training program. Eligible inmates learn skills that can enhance post-release employment opportunities in energy efficiency and renewable energy.

Federal Complex in Victorville, California

An early example of the bureau's successes took place in 2001 when the Bureau of Prisons invested \$3.5 million to install upgrades at the Federal Complex in Victorville, California. The investment paid off. A year later, the design was completed for the installation of a wind turbine, a photovoltaic-covered parking array, and several cost-efficient upgrades to the HVAC system.

Today, when operating at its full power, the wind turbine generates enough electricity to power several hundred homes, while preventing air pollution that would have been generated serving the homes through conventional electricity-supplying methods. The wind turbine produces up to 30 percent of the peak electric demand and nearly 10 percent of the annual electric consumption of the facility, providing a good degree of energy independence.

Recognizing the dual benefit of environmentally "free" solar energy, the bureau covered a parking area in the Mojave Desert. A PV carport array provides shade for two to four



rows of staff parking while it simultaneously produces some 50 kilowatts of electricity during sunny summer days.

Upgrades to the HVAC system included converting the air systems from conventional constant volume to variable airflow via the addition of variable speed drives and improved computer controls. These changes provide a significant reduction in fan power, and provide flexibility in meeting heating and cooling loads. These improvements, along with the ability to monitor and display outside and total airflows, help address comfort complaints while saving energy and money.

The wind turbine, solar photovoltaic carport array, and HVAC upgrades were paid for entirely from incentives and energy cost savings, placing no additional financial burden on FCI Victorville and, in fact, saves \$350,000 in annual energy costs and almost 1.9 million kilowatt hours annually.

Federal Correctional Complex in Butner, North Carolina

Sustainable construction is becoming standard practice throughout most of the United States' construction markets, but due to the heightened security level and rigid nature of correctional facilities, "green" building techniques are still rare in association with prisons and jails. However, one particular Federal Bureau of Prisons project – the "greening" of the Federal Correctional Complex (FCC) in Butner, North Carolina – has shown that if planners choose the proper steps early in the green-construction process, LEED® certification is possible without having a major effect on operations. LEED® (Leadership in Energy and Environmental Design) is the U.S. Green Building Council's measure for rating sustainable design. Butner FCC, which consists of one low-security and two medium-security facilities, marks the first — and only (so far) — LEED® -certified federal prison. It was awarded LEED® certification in November 2005.

Through the incorporation of waterless and water-efficient technology into the facility's design, water use was reduced by 33 percent. It has also achieved a 30 percent reduction in design energy costs compared to its standard counterparts. During construction, a strict construction-waste-management plan saved more than 70 percent of construction waste from being sent to local landfills. Since the activation of the facility as a "green building," the FCC had devoted considerable effort to incorporating "green products" at the FCC. The bureau added five new compressed-natural-gas vehicles to its fleet at Butner and switched to a new laundry process that couples the use of green chemicals with lower water temperature to reduce the impact on resources and the environment significantly.

The FCC's Facilities Department also instituted an alternative-fuel program to help reduce harmful vehicle emissions, and food service oils are converted to biobased diesel for running generators and diesel equipment. The Safety Department procures environmentally friendly sanitation and housekeeping chemicals and supplies that

meet green procurement standards. Each Butner institution also has a recycling program. Inmate details sort through and remove recyclable materials, and the recycling of metals has resulted in significant monetary savings.

In 2006, construction of medium-security Butner's Federal Correctional Institution (FCI) II was completed. In accordance with LEED® principles and standards, special attention was given to site selection, water and energy efficiency, materials and resources, and indoor environmental.

Sustainable Aspects

Moseley Architects, a company that worked on the project, set out to earn basic certification, which requires 26 points to qualify. Facility planners can also attempt to obtain silver (33 to 38 points), gold (39 to 51 points) and platinum (52 to 69 points) certification. Upon completion, the building was certified with 30 LEED® points in several construction categories:

- Seven out of 14 possible points were obtained in the sustainable sites category. The facility earned points for site selection, providing bicycle storage (storage and shower/changing facilities are provided for more than five percent of building occupants), alternative-fuel refueling stations, and specified parking for alternative transportation. Additional points were earned through reduced site disturbance, storm-water management, and an exterior designed to reduce the "heat island effect".



- Four out of five points were awarded in the water-efficiency category. Low-growing grasses throughout the site make a permanent irrigation system unnecessary. Lavatories, showers, and sinks are outfitted with low-flow plumbing fixtures. These strategies have resulted in a more than 33 percent reduction in the amount of water used at the facility, compared to its similar, conventionally built buildings.
- Six out of 17 points were awarded in the energy and atmosphere category. The facility received points for optimized energy performance and reduced ozone depletion.
- Four out of 13 points were awarded in the materials and resources category. During construction, 70 percent of waste was recycled, 22 percent of materials were manufactured within 500 miles of the site, and more than five percent of materials contained recycled content.
- Six of 15 points were awarded in the indoor environmental quality category. An IAQ plan was created during construction and before occupancy. Low emitting materials were used and steps were taken to keep contaminants out of the facility. “We had to put floor mats at each of the entrances to the building to keep debris out of the facility, which apparently could enter the HVAC system and cause problems,” Downs says.
- Three of five points were awarded in the innovation and design process category. The facility received points for using green cleaning products, and by having a LEED®-accredited professional and a post-occupancy review.

The Future

Although the Butner prison successfully achieved LEED® certification, it may remain the only LEED®-certified federal prison facility for the near future. Bureau officials could not confirm any planned facilities that are aiming for certification.



FCI Safford, Arizona

The FCI located in Safford, Arizona is the 42nd penal institution of more than 100 in the United States to begin a conservation project. The facility is in the process of going green, while also giving its inmates help to prevent repeat offenses.

The prison's energy-conservation project includes renovating inmate dormitories by installing water-conserving showers and toilets and replacing lighting with energy-efficient fixtures. Air conditioners replace evaporative coolers, and new windows are installed to maximize heating and cooling efforts.

The federal “second chance law” results in more halfway houses for federal inmates who are completing their sentences. Prior to release from the halfway house, inmates must acquire nine “core skills” that are aimed at reducing the number of repeat offenders.

Those skills include help with daily living, mental health, wellness, interpersonal, academic, cognitive, vocational/career, leisure time and character.

States Prisons Also Going Green

At Washington State's Cedar Creek Corrections Center, inmates are taking part in the "green work" program, which enables them to grow and nurture organic produce, compost the prison's food waste, take part in ecological research projects with a nearby university, and even produce honey from the prison's own hives. Also to its credit, the Washington State Department of Corrections boasts 34 LEED®-certified facilities, with more than 923,000 square feet of LEED®-certified space added in fiscal year 2008 alone.

Other States Getting in on the Green Act

And Washington is not alone. Several states are busy re-evaluating the traditional approach to prisons – which house more than two million Americans – and high on the agenda are "green" upgrades, including energy efficiency.

This California Department of Corrections and Rehabilitation recently announced 16 new green retrofitting projects, which they estimate will save \$3 million in energy



costs each year. The state already has solar power fields at a pair of facilities, and plans to build six additional fields.

Other green projects – from wind turbines to biomass boilers – have been announced by Departments of Corrections in Virginia, Nevada, and Indiana.



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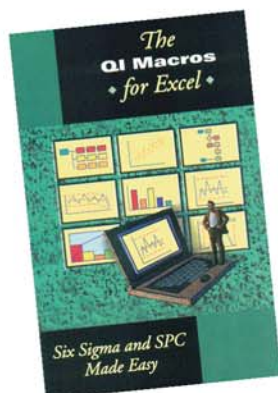


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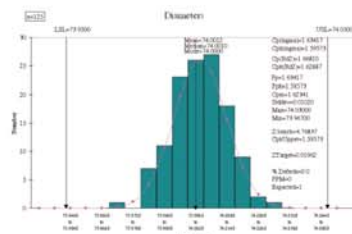
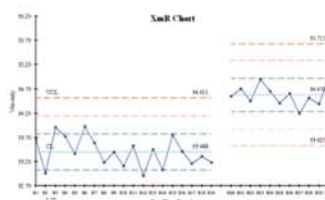
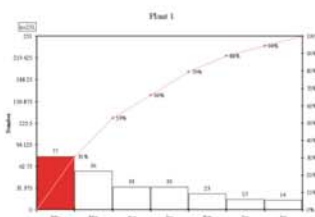
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For the Greener Good

AbilityOne nonprofit agencies play a powerful role in the development of green products for the General Services Administration and the rest of the federal government.

Today, a company's reputation isn't just about quality products and services, delivery performance and customer satisfaction. Concern for the planet – with products that address the environment – has become a critical factor, too. For organizations that do business with the federal government, there are a number of federal “green procurement” initiatives that are shaping the future of product development.



Current Federal Acquisition Regulations (FAR) identify the requirement for federal agencies to contract for environmentally-preferable products and services. Outlined in FAR subpart 23.7, federal agencies must implement cost-effective contracting preference programs promoting energy-efficiency, water conservation, and the acquisition of environmentally-preferable products and services, and employ acquisition strategies that affirmatively implement environmental objectives. Executive Orders 13423 and 13415, “Strengthening Federal Environmental, Energy, and Transportation Management,” sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reduction, recycling, renewable energy, sustainable buildings, water conservation and more. The Office of Federal Procurement Policy is considering a policy that details guidance for federal agencies on the acquisition of “green” products and services. The Environmental Protection Agency rulings, state regulations, and a more eco-savvy customer are driving initiatives to reengineer the next generation of products.

Whether or not a company does business with the federal government, responsible organizations realize their roles in engineering the next generation of products that are friendlier to the planet, and AbilityOne nonprofits are greening their products to attract eco-conscious customers. Marketed under the National Industries for the Blind (NIB, an AbilityOne central nonprofit agency), trade name of SKILCRAFT®, and the AbilityOne Program, these green products include absorbents, chemical cleaners and degreasers, food service disposables, office products, paper towels and tissue, personal care cleaners, and trash can liners.



Jim Hitchcock, an employee of the Association for Vision Rehabilitation and Employment in Binghamton, New York, makes the new convenience pack copy paper, which contains 30 percent post-consumer recycled materials and is packaged in 40 percent recycled materials.

Making Progress with Biobased Products

By incorporating biobased technologies, SKILCRAFT® introduced biobased flatware used for military dining packets. These items are made with 50 percent wheat-based raw material to replace plastic content, which makes the flatware biodegradable and compostable. SKILCRAFT's BioRenewables line of products includes glass and hard surface cleaners; graffiti remover; bath and tile cleaner; industrial degreaser; a multi-purpose cleaner and degreaser; and foaming hand, hair and body wash. In addition to the biobased cutlery, biobased pens, highlighters, and correction tape are now available. Also available are 100 percent recycled shipping and address labels, which meet or exceed Executive order 13423 and 13415 (an enhancement to the former order).

The Green Seal of Approval

Many SKILCRAFT® janitorial and sanitary products, such as carpet and upholstery cleaners, bathroom cleaners, floor cleaners and hand soap have been redesigned to earn Green Seal certification, which is widely recognized as a mark of environmental responsibility.

Office Products Go Green

A wide variety of office products, including writing instruments, binders, portfolios, copy paper, pads, computer and printer paper, file folders, clocks, boxes, envelopes, shipping containers, plastic bags, disposable paper products, and wipers have been redesigned to be more eco-friendly. Over 100 different SKILCRAFT® paper products use post-consumer recycled materials and more than 50 are certified as biodegradable. Whether it is replacing virgin materials with recycled materials, or using unbleached paper stock for paper towels and processed chlorine-free paper to manufacture paper and pads, SKILCRAFT® products are now more planet friendly.



Industries for the Blind, West Allis, Wisconsin, employee Jim Howard (left) pours wax for soy candles while teammate Earl McHenry looks on.

Being Green at Home

Soy candles are one of the newest SKILCRAFT® home products sold in military commissaries. Made using biobased soybean wax, a renewable resource that supports America's farmers, soy candles are clean burning, non-toxic and burn 30 - 50 percent longer than paraffin candles. Soy candles are made at Industries for the Blind in West Allis, Wisconsin, an AbilityOne nonprofit agency. According to Rich Weigold, vice president of manufacturing, "Initially, most of the

processes were completely manual, but we developed an automated pour system that regulates the temperature of the wax poured for each candle. Our engineering staff was instrumental in developing the equipment and processes.” With the original process, employees had to manually pour six candles from a pitcher that had to sit for 20 to 30 minutes before the wax could be used at the correct temperature. In addition, the engineering staff developed a device to ensure that the wick was perfectly centered in the candle every time, which was a critical operation for employees who are blind. The agency is continuing to expand this new product by developing different scents for the military resale market.

Along with soy candles, biodegradable flatware; microfiber mops, dusters and cloths; and BioBrooms are other AbilityOne new environmentally-friendly SKILCRAFT® products sold in military commissaries and exchanges, and more green products are in the development pipeline.

Greener Packaging and Printing

Product packaging that is disposed by the consumer is gaining more and more attention from eco-conscious customers. One of AbilityOne’s newer initiatives is the development of an EFP (environmentally-friendly packaging) logo and coversheet to promote environmentally-responsible packaging. The goal is to eliminate all non-recyclable materials, such as polyvinyl chlorides and other plastics, and replace them with recycled materials that can be recycled again. Winston-Salem Industries for the Blind and ABVI-Goodwill Industries in Rochester, New York, also an AbilityOne nonprofit, have earned the EFP label from AbilityOne because they have changed their packaging to 100 percent recycled content CCNB (clay-coated news back) stock.

Dramatic Developments

The AbilityOne Program realizes that to continue conducting business as usual would mean a future with rising greenhouse gas emissions and would compromise the planet for future generations. That is why for every green SKILCRAFT® and AbilityOne product already available, there are at least two more in the development pipeline. Strategies are underway to develop greener cleaning products such as biobased shredder oil, multipurpose lubricants, floor care products, and laundry detergents. For office use, some of the greener offerings will include biobased glue sticks; biodegradable rubber bands; energy miser programmable power strips; hybrid copy paper; binders and labels with 100 percent recycled and recyclable content; and biobased highlighters and pens. And many older products, such as clocks, clipboards, mops, rubber stamps, and writing instruments are being redesigned to meet new requirements such as biodegradability, post-consumer waste content, and other environmentally-preferable alternatives. For more information on smart product choices through SKILCRAFT® environmentally-friendly products, visit www.abilityone.gov.



Environmentally-friendly packaging for SKILCRAFT® writing instruments

Planet-Friendly Packaging

PVC (polyvinyl chloride) plastic products are everywhere and are dangerous to human health and the environment throughout their entire life cycle – at the factory, in offices and homes, and in the trash. That new shower curtain smell? That's the smell of poisonous chemicals off-gassing from the PVC. Many products are packaged with PVC, and PVC products cannot be recycled due to the many different toxic additives used to soften or stabilize them.

The good news is that safer alternatives to PVC packaging are readily available, and a growing list of responsible companies have committed to phasing out PVC packaging and switching to safer products. One of these companies is Winston-Salem Industries for the Blind, an AbilityOne nonprofit agency. All vinyl PVC packaging has been eliminated from their line of markers and highlighters and

replaced with clay-coated news back (CCNB), an environmentally-friendly packaging alternative that has been gaining popularity as a “green” choice for packaging. Lighter grades of CCNB have been used for years on cereal and pasta boxes, and now many environmentally-conscientious companies are switching from plastic packaging to CCNB. In addition, Winston-Salem Industries has replaced UV (ultra violet) coatings on its packaging to aqueous coatings and inks, a water-based and environmentally-friendly alternative.

The benefits have been dramatic. Employees are finding that the CCNB packaging is much easier to use because it does not have the sharp edges and stiffness of PVC packaging. Jeanne Wilkinson, vice president of business strategies at Winston-Salem Industries, estimates that the changeover has resulted in a savings of \$55,000 a year, just on packaging materials for the markers and highlighters line. An added bonus is that productivity has improved and employees are packaging 3,000 writing instruments a day, compared to 1,000 per day in the past. “The new packaging is good for the environment, good for our employees and good for the organization,” she explained. “And higher productivity leads to greater customer satisfaction because we are more effectively able to respond to surge orders from our customers.”

Earth-Friendly Packaging

Customers not only want green products and packaging, but also would like to know they are buying from organizations that are doing other things to address the climate crisis. From retrofitting existing buildings to make them more efficient, to reducing, reusing, and recycling, AbilityOne has undertaken a variety of “green” strategies to manufacture products and provide services while being responsible to the environment. Industries for the Blind (IB) in West Allis, Wisconsin, is one of those AbilityOne nonprofit agencies that is addressing the energy challenges facing its community.

When IB moved from Milwaukee to West Allis in 2006, it took advantage of that opportunity to maximize operational efficiency while reducing its carbon footprint. In the early stages of planning, IB installed



Industries for the Blind, West Allis, Wisconsin



Outlook Nebraska, Inc. employee Roy Brooks

new air conditioning and heating systems, in addition to a new roof. But there were many more simple and inexpensive changes, such as installing energy-efficient T5 fluorescent high bay lighting – one of the most popular green initiatives – to replace the old-style, high-pressure sodium lighting. The change has not only increased light output and lamp life, which decreases IB's maintenance expenses, but also contributed to an annual utility savings of \$1,800. In addition to facility lighting, IB purchases trash can liners with 50 percent blended recycled materials and uses green scrubber cleaners and degreasers in the plant. Bathrooms are equipped with toilet tissue and paper towels made from 100 percent recycled material, along with "green" certified hand soap. And to reduce excessive waste, IB installed fully automatic soap, hand sanitizer and towel dispensers. These initiatives have resulted in a reduction of trash as well as a cutback in consumption, which has also contributed to a decline in operating expenses. Many of these positive changes have been implemented as a result of recommendations from IB's Safety and Cleanliness Committee. Both management and

this committee believe that IB has a responsibility to grow employment for people who are blind, while providing a clean, safe and comfortable work environment, with earth-friendly initiatives.

IB's ultimate goal is to become LEED® Certified by the U.S. Green Building Council. A third-party certification program, LEED® (Leadership in Energy and Environmental Design) is the nationally accepted benchmark for the design, construction and operation of high-performance green buildings. It promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health – sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

People Behind the Product

Here is a glimpse at two of the people behind one of SKILCRAFT®'s planet-friendly AbilityOne products.

In addition to being in the people business, Outlook Nebraska, Inc. (ONI), an AbilityOne nonprofit agency, is in the paper business – specifically toilet tissue. Products from the Omaha-based facility are made using 100 percent recycled content with a minimum of 30 percent post-consumer fiber. Suitable for low-flow toilets, ONI's toilet tissue rolls meet and exceed CPG (Comprehensive Procurement Guidelines) for paper products and are produced without the use of harmful dyes, fragrances or chlorine.

Who are some of the people making these planet-friendly products?

Packers Roy Brooks and Kenny Blackman work side-by-side on the assembly line at ONI, deftly plucking multiple rolls at a time off the line and packing them into boxes of 80 rolls each. Their experienced hands conduct a quick quality control check, feeling the rolls to ensure they are cut and wrapped correctly. If something does not meet their standards, they notify their supervisor so that the issue is promptly resolved. The packed boxes are then moved to another assembly line to be sealed with tape and lifted onto a pallet.

Brooks is blind in one eye and is vision impaired in the other, the result of retinitis pigmentosa, which was diagnosed at age 15. He said that before coming to ONI over three years ago, it was always a challenge to find a job, because many employers were not willing to hire employees who are blind. "I'd rather be working than sitting around at home," said Brooks, "and I appreciate the support of my co-workers and team leaders at ONI."

Blackman became blind at age 29 as a result of diabetes, a disease he has lived with since he was 10 years old. He admitted that for many years, he was scared to go out and try to find a job. Then a few years ago, Kenny met two ONI employees, Executive Director Eric Stueckrath and Human Resources Manager Mark Plutschak, who is blind. "They made me feel important," said Blackman. He soon joined the ONI team where he says, "I look forward to coming here each day and am glad to have the opportunity to work and to be independent."

Keeping Things Green and Clean

Through AbilityOne, ONI sells tissue to a wide range of federal government customers – both civilian and military. It is shipped everywhere from national parks and government office buildings across the country, to military installations overseas. The company works with more than 300 distributors including Fortune 500 companies such as Grainger, Office Depot, Staples, and Corporate Express. And in response to customer needs, ONI changed the packaging of its single-roll toilet tissue – boxing the product in quantities of 80 rolls, instead of 96 rolls. Customers found that the

80-roll packages are easier to handle and ideal for use in offices with limited storage space.

Poised for growth in a new expanded facility, ONI is raising funds to purchase new equipment, which would double the company's manufacturing capacity, enable ONI to expand its product line, and grow more jobs for people who are blind by increasing sales to \$20-25 million in the next five years.



Outlook Nebraska, Inc. employee Kenny Blackman

‘Shot in the Dark’

Turns Cooking Oil into Valuable Fuel

WORKTEC Mechanic Jim West oversees one stage of the cooking oil refinery process.



Modern day alchemy has transformed one organization's waste into valuable fuel for another and simultaneously cut costs for both.

Until recently, the Clayton Public School System, located in Atlanta, had to pay a fee to dispose of used vegetable oil from its 57 cafeterias. Today, WORKTEC, a member

of the network of more than 600 AbilityOne nonprofit agencies, picks up the used cooking oil for free and, after refinement, uses it to help fuel some of the machinery it operates to maintain school grounds. This unusual collaboration reduces harmful greenhouse gas emissions and operating costs for both organizations. "This was a shot in the dark at best for us," according to John Burdin, WORKTEC project manager for landscape management. "The process has cut our costs, making us more competitive and better able to keep people with disabilities employed."



Burdin stumbled upon the idea of refining vegetable oil into fuel after reading an article about it on the Internet that featured a refinery operated by the Roads and Grounds Department of Perry, Ga. Although skeptical, Burdin and his mechanics drove to Perry for a closer look and came away convinced they could set up a similar vegetable oil filtering system.

“At the time we started this, the price of diesel was between \$4.00 and \$4.50 a gallon,” Burdin said. “The total cost for refining the used vegetable oil is about \$0.50 a gallon. Today, Diesel costs about \$2.50-\$2.75 a gallon in Georgia. Since we mix the refined oil 50-50 with diesel, the mixture still produces significant cost savings for us.”

How it Works

WORKTEC distributes special containers for used vegetable oil to all the school kitchens plus a few local restaurants and later replaces the filled containers with empty ones. After retrieving the used oil, WORKTEC runs it through a seven-step filtering process and injects certain diesel fuel additives. The process takes just 15 minutes to produce three gallons of refined vegetable oil that is ready to be mixed in equal parts with diesel. The mix is used to power 11 WORKTEC vehicles. Burdin notes that as long as a 50-50 mix of refined vegetable oil and diesel is utilized, no modifications should be necessary for it to power most diesel trucks and landscape equipment. “We’ve had no problems but certain pieces of equipment may or may not run better on this mix,” Burdin reports. “Fortunately, we have experienced no loss of power in any of our vehicles.”

Picking up the used vegetable oil from the school cafeterias provides 15 hours of work per week for an employee with disabilities. The space required to maintain the vegetable oil refinery is modest.

WORKTEC utilizes about 200 sq. ft. for the filtering system and storage of all its refined oil. What about reports of a pervasive cooking oil smell emanating from equipment powered in part by used vegetable oil? Burdin reports he and his staff detect only a “light restaurant smell” from the equipment when it is running in a partly enclosed space and nothing at all, typically, when the equipment is operating outdoors.

According to Michael Caldwell, director of facility maintenance operations at Clayton County Public Schools, WORKTEC’s vegetable oil refinery has had a positive impact on the school system’s nutrition department, landscaping, and the general environment.

“I can’t say enough about the professionalism of the people at WORKTEC,” remarked Caldwell. “They are a pleasure to work with and respond immediately to any issue brought to their attention. They are always available. They have a very good crew of managers that I enjoy working with.”

WORKTEC Landscape Management Project Manager John Burdin pours a mix of refined vegetable oil with diesel into a truck.



Considerations

1. Think out of the box. According to Burdin, a strong inclination toward innovation among key staff is probably necessary for successfully setting-up a vegetable oil refinery. “My mechanics, Jim West and Wayne Rine, have been an integral part of setting up the whole project—researching the whole refinery filtering system and putting it all together,” Burdin said. “I can’t say enough about their work and input.”

2. Set-up costs. There are some set up costs. WORKTEC invested approximately \$5,000 to purchase all the collection barrels for the schools, equipment to collect the oil and to clean the totes, and equipment (primarily special filters) to refine the oil. Since most of the filters WORKTEC uses can be washed and re-used, ongoing maintenance of the entire operation is nominal.

3. Acquire adequate product volume. WORKTEC requires 200 gallons of refined vegetable oil per month to create the 50-50 diesel and oil mix that powers its equipment and it collects 300-400 gallons per month of used cooking oil from schools. “That sounds like a surplus, but in fact it allows us to continue to use the 50-50 mix whenever schools are shut down for the holidays and during the summer,” Burdin said.

4. Be open to bumps in the road. Burdin emphasizes that in some cases, adjustments may be required for the refined vegetable oil and diesel mix to successfully power a vehicle or machine.

5. Focus on the customer. “Although we are saving the Clayton County Public School System money by collecting their used vegetable oil free of charge, we have to make sure they are well serviced as our customer,” Burdin said. “For us, that means keeping their oil collection containers clean and empty enough so they can easily add more used cooking oil without any problem.”



WORKTEC Mechanic Jim West stands beside one portion of the filtering process that refines used vegetable oil so it can be mixed with diesel to power grounds maintenance equipment.

Burdin notes the vegetable oil refinery is an example of WORKTEC’s commitment to operate in as environmentally friendly manner as possible and reduce costs. “We are proud of what we’re doing and our crews are proud of what we’re doing,” Burdin said. “If we can cut costs for our customers and operate more green, it is a win-win situation for us all.”

AbilityOne Program

Providing employment opportunities to more than 40,000 people, the AbilityOne Program is the largest single source of employment for people who are blind or have other significant disabilities in the United States. More than 600 participating nonprofit organizations employ these individuals and provide quality goods and services to the federal government at a fair market price. The AbilityOne Program is administered by the Committee for Purchase From People Who Are Blind or Severely Disabled (www.abilityone.gov), an independent federal agency, with assistance from National Industries for the Blind (NIB) (www.nib.org) and NISH-Creating Employment Opportunities for People with Severe Disabilities (www.nish.org).

Energy Metering

Is Your Facility Ready?



High standards and mandates have been set for energy and water reduction in federal buildings. Metering standards are integral to these efforts. Multiple laws and regulations set mandates for advanced metering and measurement requirements.

The Energy Policy Act (EPAcT) of 2005 requires all federal buildings be metered by the October 1, 2012 deadline. Advanced metering devices must provide data daily (at least) and measure the consumption of electricity hourly, at a minimum. Metering devices must be used to the maximum extent practicable. EPAcT also requires federal agencies to submit to the Department of Energy (DOE) an implementation plan that identifies personnel responsible for achieving metering requirements, and any determination by the agency that advanced meters or metering systems are not practicable in their specific situation. Metering will help ensure efficient energy use and reduce the cost of electricity used in federal facilities.



Energy Consumption

Based on a 2003 baseline, by 2010 government facilities are required to reduce energy consumption by 15 percent – with annual percentage reductions reaching 30 percent by 2015.

The Energy Independence and Security Act (EISA) of 2007 requires energy policy changes in the use of energy-efficient lighting fixtures and bulbs in federal buildings. It also prohibits federal agencies from leasing buildings that have not earned an ENERGY STAR label with some exceptions, effective December 19, 2010.

EISA 2007 establishes a framework for facility project management and benchmarking. Agencies must identify all “covered facilities” that comprise at least 75 percent of the agency’s facility energy use. Each of these covered facilities must have a designated energy manager. Each facility energy manager will be responsible for:

- Following up on implemented measures
- Fully-commissioning equipment
- Putting operation and maintenance (O&M) plans in place
- Measuring and verifying energy and water savings.
- Using a Department of Energy (DOE) Web application to certify and track compliance for energy and water evaluations, project implementation and follow up measures, and estimated cost and savings. The Web application will be available to Congress, other federal agencies, and the public – with some specific data exempted from disclosure for national-security purposes.
- Completing comprehensive energy and water evaluations of 25 percent of covered facilities each year so that an evaluation of each facility is completed at least once every four years.

Helpful tips for reducing the energy load:

- Turn off fluorescent lights when leaving an area for more than one minute. (During non-emergencies, five minutes is recommended, to keep from excessively reducing lamp life).
- Turn off incandescent lights when leaving areas for any period of time. In areas with sufficient daylight, turn off lights. Adjust blinds (if present) to reduce glare.
- Use task lighting and turn off general lighting, where it is feasible to maintain sufficient lighting levels for safety and productivity.
- Turn off display and decorative lighting.
- Turn off printers when not in use.
- Turn off monitors when not in use.
- Ensure ENERGY STAR power-down features are activated.
- If computers do not have ENERGY STAR features, turn them off when leaving the office for 30 minutes or longer.
- Ensure personal appliances (such as coffee pots and radios) are turned off.
- Ensure that ventilation grilles and fan coil units are not blocked by books, flowers, debris, or other obstructions. This will improve air-conditioning system efficiency and improve comfort.



Water Consumption

Executive Order 13423 mandates reducing water consumption (gallon/square foot) by 16 percent by the end of fiscal year 2015, based on a 2007 baseline. E.O. 13514 expands these requirements, mandating federal agencies to improve water efficiency by:

- Reducing potable water consumption intensity two percent annually through fiscal year 2020, or 26

percent by the end of fiscal year 2020 – relative to a fiscal year 2007 baseline.

- Reducing agency industrial, landscaping, and agricultural water consumption two percent annually, or 20 percent by the end of fiscal year 2020 – relative to a fiscal year 2010 baseline.

Advanced Metering

Advanced meters have the capability to measure and record interval data (at least hourly for electricity) and transmit the data to a remote location in an easily integrated format into an advanced metering system.

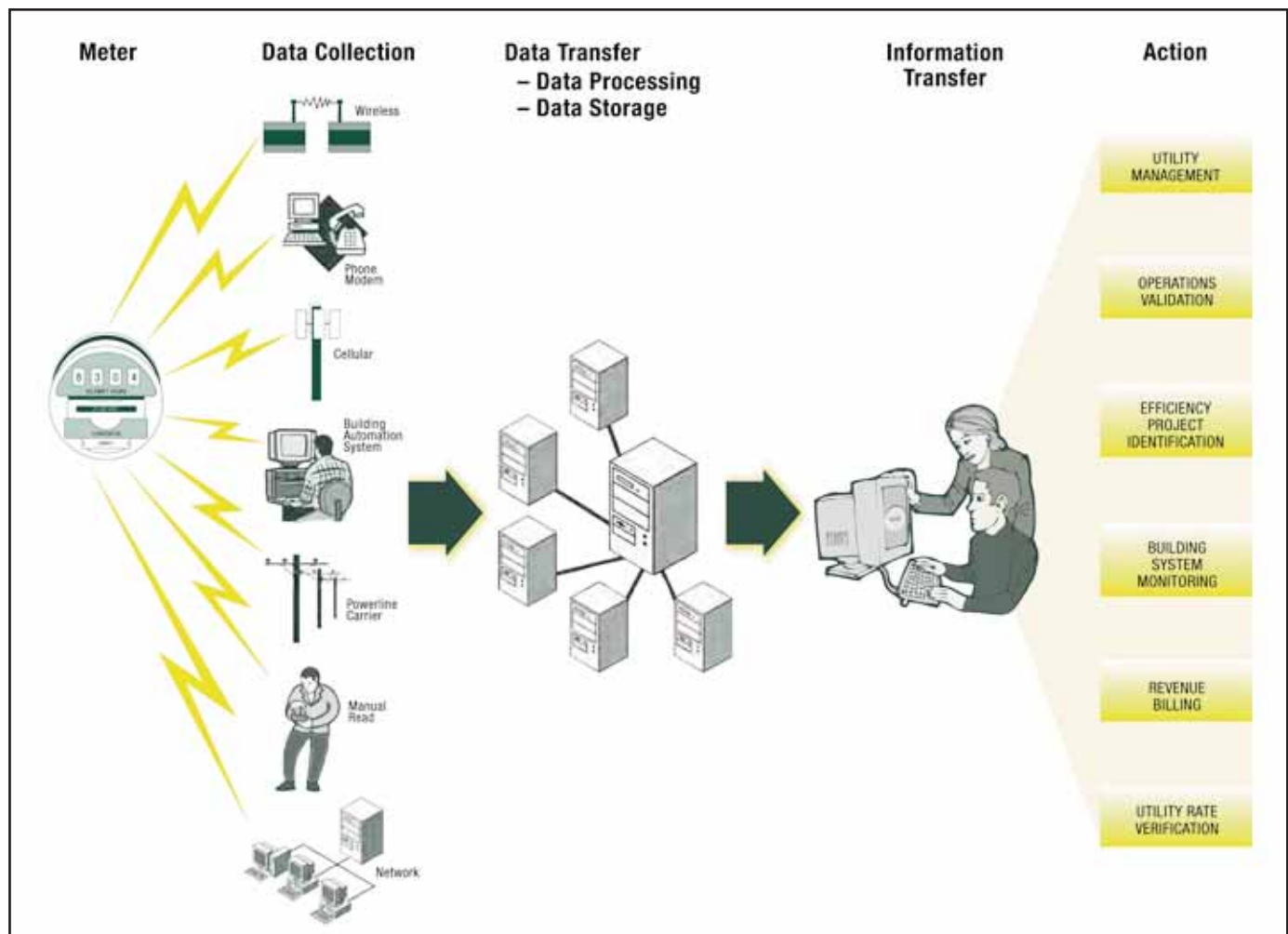
An advanced metering system collects time-differentiated energy-usage data from advanced meters through a network system on either an on-request or defined schedule basis. The system can provide usage information on at least a daily basis and can support desired features and functionality related to energy-use management, operations, and procurement.

“Metering” is not a one-time event in which equipment is bought and installed; the application of meters to measure energy use will not, in itself, result in any energy or utility cost savings. Instead, meters are a technology that enables

improved energy management, while metering itself is an on-going process. The strategic application and operation of meters and metering systems are critical elements of a metering program.

To succeed, a metering program must accomplish each of the steps listed below (all of the post-installation steps need to be completed on an on-going basis):

- Identify the objectives of the metering program prior to designing and purchasing metering equipment. (Consider what should be measured and why, what the priorities are, and what the budget is.)
- Design the metering systems to satisfy the identified program objectives;
- Purchase and install the metering systems as designed. (This includes verification of system operation, a.k.a. commissioning.);
- Operate the metering system to measure, record, and store desired values;



- Compile and complete engineering analysis of data;
- Develop recommendations;
- Implement recommendations in a timely manner; and
- Maintain the metering system.

The overall effectiveness of a metering program is the product – not the sum – of each of the above steps. If any step is not successfully completed, the benefits of the metering program will be minimized and goals may be in danger of not being reached.

Uses of Metered Data

Many potential applications for metered data exist. Reasons to meter will vary by site, with some general examples listed below.

- Energy billing and procurement, including measuring tenant energy use, verifying utility bills, identifying best utility rate tariffs, and participating in demand-response programs.



- Measuring, verifying, and optimizing performance, including: diagnosing equipment and systems operations; potential retro-fit/replacement projects; benchmarking utility use; identifying, monitoring, diagnosing, and communicating power-quality problems.
- Manage utility use, including monitoring existing utility usage and utility budgeting support.
- Baseline development and measurement and verification (M&V) of savings in energy savings performance contracts (ESPC) and utility energy services contracts (UESC).
- Promote energy use awareness for building managers and occupants.

Ultimately, numerous benefits from these metering uses will be realized. These benefits will include: reduced operating costs from reduced energy use and increased equipment life; and optimized building and equipment performance – including improved systems.

Essential Vocabulary – Metering

Critical Peak Pricing

A type of dynamic pricing whereby the majority of kWh usage is priced on a time-of-use (TOU) basis, but where certain hours on certain days where the system is experiencing high peak demand are subject to higher hourly energy prices that reflect market conditions for peak generation and delivery during peak demand periods. These critical period prices may be known to electricity customers under conditions such as “day-ahead” or “hour ahead” and are typically employed a limited number of times per year.

Dynamic Pricing

Retail prices for energy consumed that offer different prices during different time periods and reflect the fact that power generation costs and wholesale power purchase costs vary during different time periods. Types include Time-of-Use Pricing, Critical Peak Pricing and Real-Time Pricing.

Economic Demand Response Programs

Encourage demand reductions via price signals to energy users that reflect the higher costs of electricity production and delivery at times of system peak.

Load Management

A term used to refer to interruptible rates, curtailment programs and direct load control programs.

How GSA Can Help with Metering Requirements

The Metering and Advanced Metering Services offered under GSA MAS 03FAC, SIN 871 204 provide the tools for complying with legislation such as Executive Order 13423, “Strengthening Federal Environmental, Energy, and Transportation Management”, and The Energy Independence and Security Act (ESIA) of 2007. This document provides specific information concerning what is available and how to order the Metering and Advanced Metering Services available under 03FAC. The metering services provided under Multiple Award Schedule 03FAC are scalable based on individual project needs identified by the activity ordering the services.

SIN 871 204

Metering services include the installation of metering equipment and software for the purpose of tracking energy consumption for steam, gas, water, and electrical utilities. The services provide useful measurement and verification tracking capability that can be used to identify energy efficiency and determine the overall effectiveness of implemented energy-conservation measures.

Advanced metering services provide detailed energy-consumption data on a time-specific basis – by the minute, by the hour, or by the day. Advanced metering data analysis is used to determine where energy waste is occurring and to recommend ways of using energy more effectively. These services also provide energy-demand information and facilitate load control through the use of control systems and/or databases. These control systems have various configurations and interfaces and can be either onsite or remotely accessed.



Multiple Award Schedule Ordering Guidelines

Complete GSA MAS ordering procedures are outlined in FAR 8.4, Federal Supply Schedules. In addition, Basic Schedule Ordering Guidelines are available to provide useful information for starting to order from the GSA MAS program. Following are notes to remember when issuing a task/delivery order against a GSA MAS contract:

For orders over the micro-purchase threshold, you must seek at least three price quotes.

GSA MAS contracts are five-year contracts with three five-year options. They do have variable contract periods beginning at the date of award and expiring in five years.

Clauses can be added at the task/delivery order level as long as they do not interfere with the terms and conditions of the MAS contract. All clauses in a schedule contract can be found in the schedule solicitation. Links to the solicitation can be found in eLibrary (www.gsaelibrary.gsa.gov) through PBS One Source.

GSA MAS prices are determined to be fair and reasonable; however, additional discounts can be requested at any time and shall be requested if orders exceed the Maximum Order Threshold. (The Maximum Order Threshold varies by SIN and can be found in eLibrary through PBS One Source.)

If you would like additional information or have questions about using GSA MAS 03FAC Energy Service contracts, please contact Jennifer Hazelman, Business Development Specialist, Center for Facilities Maintenance and Hardware. She can be reached at (816) 926-7193 or via jennifer.hazelman@gsa.gov.

This article attempts to summarize the "Guidance for Electric Metering in Federal Buildings" guidebook, which is available online in its entirety (as a PDF file) at http://www1.eere.energy.gov/femp/pdfs/adv_metering.pdf.

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Computers for Learning

Closing the Loop





How are computers connected to the environment?

People are now concerned more than ever about the effect of the environment on their health. The popularity of bottled water by itself supports that belief. Although some people just prefer the taste of bottled water over tap water, many drink bottled water because they think it is safer than water that comes from a series of pipes that may be constructed with toxins.

Most people are aware that lead, mercury, and cadmium poison the environment and can have deleterious effects on human health. However, some of the same people will say that lead poisoning comes from lead paint, cadmium poisoning comes from exposure to silver solder, and mercury poisoning comes from eating too much fish.

However, computers and computer peripherals that are inappropriately discarded also contribute to a waste stream of toxins. According to the Federal Electronics Challenge, managed by the Environmental Protection Agency and the Office of the Federal Environmental Executive, cathode ray tubes, circuit boards, batteries, and other electronic components often contain toxic materials such as lead, mercury, and cadmium.

How can federal agencies manage the computer waste stream?

Some federal property personnel may think that the best (or only) way to manage the computer waste stream is by recycling the equipment. But recycling puts the equipment into the waste stream and negatively impacts

the environment. Reuse, on the other hand, avoids both the waste of potentially good equipment as well as having no impact on the environment. Unfortunately, reuse is often overlooked by these agencies even though it is supported by the Federal Electronics Challenge as a viable method of managing the electronic waste stream.

Generally, recycling is an abandonment and destruction procedure that comes only after the property is reported to GSA as excess, undergoes screening by federal and state agencies without transfer, and fails to sell to the general public. However, abandonment and destruction is also authorized at the beginning of the disposal cycle if the property has no commercial value or the cost of its continued care and handling exceeds the estimated proceeds of its sale.

How can agencies put their computers to reuse?

When a federal agency determines that it has computers that are no longer needed by the agency and the computers do not qualify for immediate abandonment and destruction, they can make the computers available for transfer to needy educational organizations under one of two authorities.

Under Title 15 USC 3710(i) (Stevenson-Wydler Technology Innovation Act of 1980 – Section 303 amended on February 14, 1992), federal agencies can transfer the computers directly to a school or educational non-profit activity.

Under Title 40 USC (the recodification of the Federal Property and Administrative Services Act of 1949), federal agencies can report their excess computers to GSA for possible reuse by another federal agency, its contractor or grantee, or to a state agency for surplus property (SASP) for further distribution to an eligible donee such as a school or educational non-profit organization.

Both of these authorities are discussed and encouraged under Executive Order 12999, "Educational Technology: Ensuring Opportunity for All Children in the Next Century."

Who owns the property?

When an agency transfers a computer to a school or educational nonprofit activity under Title 15 USC [the CFL Program], the holding federal agency releases its ownership of the computer and the recipient activity gains ownership of the property upon receipt.

When an agency transfers a computer under Title 40 USC to a SASP, the title to the computer is vested with the

United States Government until a one-year period of restriction is met. During the period of restriction, the donee has conditional title to the computer that allows the donee to take the computer into its custody and use it. After the period of restriction is met, the donee gains title to the computer in accordance with the Federal Surplus Personal Property Donation Program.

What is the Computers for Learning (CFL) Program?

CCFL is a web-based tool established to facilitate and promote EO 12999. When Federal agencies report their excess computers electronically to GSA, they must make a choice of how they want to make their computer related equipment made available to schools and educational nonprofit organizations. They must decide to (1) make their computer related equipment available for direct transfer through the CFL Program or (2) allow the computers to go immediately through the normal disposal cycle to make the equipment available for transfer through State Agencies for Surplus Property (SASPs) through the Federal Surplus Personal Property Program. GSA then posts the reported property on its Web sites — www.computersforlearning.gov for viewing by educational organizations [under Option 1] and www.gsaxcess.gov for viewing by the SASPs [under Option 2].

Under Option 1, educational organizations register online through the CFL Web site — www.computersforlearning.gov, then search for and select the equipment they need through use of a virtual shopping cart and checkout process. The system notifies federal agencies by email when an educational organization has requested their property for transfer. The federal agency then allocates the property. If there are competing requests, Executive Order 12999 directs federal agencies to give preference to schools and nonprofit organizations located in the Federal enterprise communities and empowerment zones established in the Omnibus Reconciliation Act of 1993, Public Law 103-66. Once an allocation is made, the system notifies the school by email of the federal agency's allocation based on registration information the school provided during registration.



Why use CFL?

Under Executive Order 12999, federal agencies can transfer their excess computers to educational organizations directly without first registering on the CFL Web site. However, the CFL web site can help you make the transfer. Here are some things to consider: The CFL database —

- screens educational organization applicants for preliminary eligibility during the registration process [e.g., the organization must support only grades prekindergarten through 12; schools must have a National Center for Education Statistics (NCES) number; educational nonprofits must certify their status as a nonprofit with a 501 tax-exempt ID and that they are established strictly for educational purposes.] However, agencies must verify that a school or educational nonprofit meets ALL eligibility requirements prior to property allocation.
- allows a federal agency to compare schools by various need criteria, such as schools in enterprise communities and empowerment zones, student to computer ratio and participation in the school lunch program

- automatically adds the transfer to the agency's Annual Non Federal Recipients Report.
- automatically generates all of the required forms for authorizing transfer

What is the Post Transaction Module?

Federal agencies that transferred their excess computers to schools or educational nonprofit activities directly without going through the CFL Web site can access the Post Transaction module in CFL to add such transfers to their agency's Annual Non Federal Recipient's Report.

If a federal agency transferred computers to a school that is not registered on the CFL Web site, the federal agency can simply register the school by filling in basic information, such as the school's name, street address, city, state, zip code, and phone number. The next time the agency transfers computers to the school, the information about the school will be available and obtainable by simply putting in the zip code in the PTM.

For more information on CFL, contact:

computers.learning@gsa.gov
(866) 333-7472.





LEED® for Commercial Interiors

GSA Offers Green Furniture

The Leadership in Energy and Environmental Design (LEED®) green building certification system is the nationally acknowledged standard for the design, construction, and operation of high-performance green buildings, the LEED® Green Building Rating provides independent, third-party verification that a building project is environmentally responsible, profitable, and a healthy place to inhabit.



The guidelines for LEED® certification were established by the U.S. Green Building Council (USGBC), which is a non-profit community of leading professionals that strives to make green buildings available to everyone within a generation.

Founded in 1993, the USGBC is a national organization with the goal of accelerating the adoption of green building practices. **It is important to note that LEED® does not certify or promote in any way, interior aspects (such as furnishings or services) of individual companies; therefore, no services or furnishings can assure a particular number of points for LEED® certification of any project.**

Building managers for remodeled existing and/or new facilities can actively move toward achieving LEED® designation; one way to do so is by using eco-friendly office furnishings. Therefore, tenant activities are integral in making building greener.

LEED® for Commercial Interiors is the green benchmark for the tenant-improvement market. This system is the recognized certification vessel for high-performance, green interiors that are: healthy to dwell within; productive places to work; less expensive to maintain and operative; and have a lessened environmental footprint. LEED® operate for Commercial Interiors grants the power to make sustainable choices to tenants and designers and tenants who do not invariably have control over the entirety of building operations.

The following chart details the points obtained toward LEED®'s Rating based on the carpeting, furniture, and furnishing choices for commercial interiors.

Numerous attributes add up to make a furniture item or furnishing “green”. There are also many third-party rating systems that have been developed by third parties, professional associations, and labs to help establish attributes. The following attributes contribute to furniture and furnishings being certified as “green”:

Reuse and Reutilization

Resource reuse in non-structural components like stackable panel systems, furniture, storage, and components that no longer are required. The government has long had a system of Reuse and Reutilization with Personal Property Management. GSAXcess® provides agencies a means of electronically reporting excess personal property to GSA. By using GSAXcess®, customers seeking property can avoid the cost of new procurements by acquiring the same or like items that have been reported as excess by another federal activity. Agencies may search GSA’s worldwide inventory through a process known as screening and may request property for transfer by selecting specific items. The property system is available to three groups of users:

- Federal agencies;
- Authorized nonfederal recipients; and
- Surplus customers

For more information on excess and surplus personal property go to www.gsa.gov/gsaxcess.

Recovered Material Content

Buy furniture that uses recycled materials. Wherever possible uses recycled materials in the construction of its rugged steel and aluminum structural components.

Fabrics and Panels

Fabrics are available in recycled, heavy-metal-free polyesters that are devoid of polybutylene terephthalates (PBTs) and chlorine, meaning they can be safely and continually recycled and remanufactured in an environmentally friendly closed loop. Also, polyethylene terephthalate (PET), a recyclable plastic, is used as padding in snap-off panels. In short, all components are totally recyclable at the end of their respective life cycles.

Environmentally Friendly Shipping

Environmentally sound shipping techniques reduce packaging refuse by offering alternatives to commonly used, harmful Styrofoam and corrugated materials. Carton-free shipping and minimal packaging for truckload orders also fall under the category of “eco-friendly shipping practices.”

Low-Emitting Materials

Whenever the GREENGUARD® Indoor Air Quality Certified icon appears on furniture, it indicates a GREENGUARD® Environmental Institute-approved laboratory has tested/evaluated representative components

| Indoor Air Emissions Standard | | | |
|---|---------------------|---------------------------|----------------------------|
| | Compound | Criteria | Product Acceptable for IAQ |
| U.S. Environmental Protection Agency (EPA) | TVOC | 0.25 mg/m ³ | Yes |
| | Formaldehyde | 0.025 ppm | Yes |
| | Total Aldehydes | 0.05 ppm | Yes |
| | 4-phenylcyclohexene | 0.00325 mg/m ³ | Yes |
| U.S. Occupational Safety and Health Administration (OSHA) | Formaldehyde | 0.10 ppm | Yes |
| World Health Organization (WHO) | Formaldehyde | 0.10 ppm | Yes |
| U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED-CI) (emission limits for seating) | TVOC | < 0.25 mg/m ³ | Yes |
| | Formaldehyde | < 0.025 ppm | Yes |
| | Total Aldehydes | < 0.05 ppm | Yes |
| | 4-phenylcyclohexene | 0.00325 mg/m ³ | Yes |



and the overall makeup of the product. A certified product meets or exceeds GREENGUARD® Emission Standards for indoor air quality. The following chart details the standards for indoor air emissions:

Air Quality for Carpets

The Green Label and Green Label Plus testing programs, which are overseen by independent labs, are designed for architects, builders, facility managers, and specifiers who want to be assured that carpeting and adhesive products meet the strictest criteria for low chemical emissions. These programs currently evaluate carpets, adhesives and cushions.

The carpet industry – working in cooperation with California's Sustainable Building Task Force and the Department of Health Services – voluntarily improved its Green Label program for carpet and adhesives to meet the testing protocol used by the Collaborative for High Performance Schools (CHPS). The Carpet and Rug Institute (CRI) has exceeded the CHPS criteria in several areas, including conducting annual testing for specific chemicals, testing for additional chemicals, and auditing testing facility annually.

Wood

Around the world, the logging of forests contributes to water pollution, habitat destruction, and the displacement of indigenous peoples and animals. Many forest-product companies believe the link between logging and its negative impact can be broken, and that forests can be effectively managed and protected simultaneously.

Forest Stewardship Council (FSC) certification is one way to improve forestry practices. The FSC is an independent, not-for-profit, non-government organization based in Bonn, Germany. Its mission is to support the management of the world's forests in a socially beneficial, environmentally appropriate, economically viable manner. Chain of Custody, which certified the FSC, tracks the path of raw materials from the forest to the consumer. The FSC label represents a promise about the wood's sourcing. While no manufacturer can guarantee LEED® credits, the following certification points are worth considering:

| Description | Point Value |
|----------------------------------|-------------|
| Local Regional Materials | 1 |
| Locally Extracted Materials | 1 |
| Rapidly Renewable Materials | 1 |
| Certified Wood | 1 |
| Low-emitting Materials | 1 |
| Innovation and Design (optional) | 1 to 4 |



Cradle to CradleSM Design Protocol

The “Cradle to CradleSM” designation (developed by the company MBDC) examines an array of factors, which includes energy, materials, disassembly, and recycling. Each material meeting this designation has been analyzed against 19 environmental and human health criteria, down to a scale of 100 parts per million. All “Cradle to CradleSM” materials can be easily disassembled, contain recycled content, and exhibit exceptional recyclability.

Companies receiving this certification will have the chance to utilize the Cradle to CradleSM branded certification mark, which signifies to customers that the company has picked the materials, chemicals and processes for health, and perpetual recyclability.

LevelTM

The Business and Institutional Furniture Manufacturer's Association (BIFMA) measures material use, energy and atmosphere impacts, social responsibility, and human and ecosystem health. Level 3 certification is the highest level of achievement possible in this BIFMA certification program, and it can be achieved only from a participating third party (such as Scientific Certification Systems, a.k.a. SCS) that meets rigorous level criteria and sizes up products against the specified BIFMA standard. The standard has multiple conformance levels: levels one, two, and three – with level three being the highest. Products are certified using a point system that considers product and facility characteristics, and whether corporate policies are environmentally friendly.

With the signing of the American Recovery and Reinvestment Act (ARRA) in 2009, billions of dollars were allocated for improving federal facilities and making them friendlier to the environment. GSA can help your agency achieve your ARRA-related environmental goals with a vast array of green products and services. And making responsible furniture choices is easy – in fact, for your convenience, GSA offers a multitude of environmentally sound products in a variety of categories.

For assistance locating these products, please contact the Integrated Workplace Acquisition Center (IWAC) at (703) 605-9300.

For floor coverings, Schedule 72 at www.gsaelibrary.gsa.gov.

Recycled and/or biobased content for flooring (as defined in Executive Order 13101).

For furniture, see Schedule 71 at www.gsaelibrary.gsa.gov.

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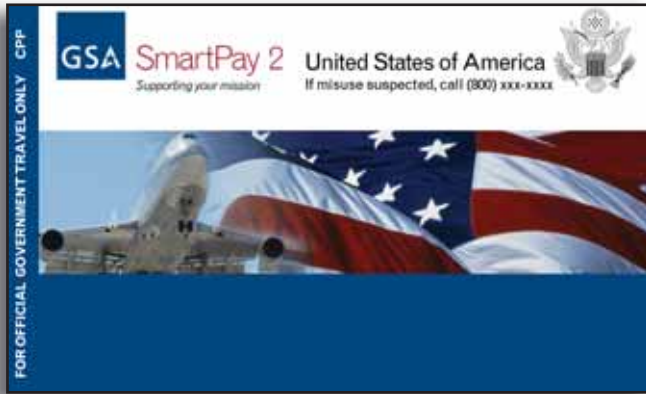
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Contract # GS-30F-0035U - Schedule # 23V Vehicle Multiple Award Schedule (VMAS) - Small Business

Travel Focus

Travel Card Dos and Don'ts





Did you know that the GSA SmartPay® program has been providing a “green” product to assist employees on official government travel for over ten years?

The GSA SmartPay® 2 travel charge card provides cardholders with a way to pay for official government travel and travel-related purchases while reducing the amount of administrative paperwork for agencies/organizations and the amount of cash needed by cardholders while on official government travel.



Having access to the GSA SmartPay® 2 travel charge card provides agencies/organizations with many additional benefits, including access to GSA City Pair airfares, savings on travel processing costs, and revenue generation through volume refunds. With these benefits, however, come certain cardholder responsibilities. The following list provides information on the Dos and Don'ts of travel card use:

Do:

- Use your government travel charge card to pay for official travel expenses (e.g., official airfare, lodging, meals, car rentals, work related telephone calls).
- Obtain travel advances for official travel through an ATM if authorized by your agency.
- Track your expenses and keep receipts while on travel so you have accurate information for filing your travel claim.

- File your travel claim within five days after you complete your trip or every 30 days if you are on continuous travel.
- Submit payment in full for each monthly bill.
- Follow your bank's dispute process for charges which are incorrect.
- Contact your bank's customer service number if you have questions about your monthly bill.
- Be aware that misuse of the travel charge card could result in disciplinary actions by your agency.
- Be aware that failure to pay your bill in a timely manner could result in suspension or cancellation of your card.
- Immediately report your card lost or stolen to your Agency/Organization Program Coordinator (A/OPC) and the card-issuing bank.



Don't:

- Use your travel card for personal use (e.g., personal calls, gifts, personal expenses).
- Obtain travel advances through the ATM unless you are on travel or will be on travel shortly.
- Obtain travel advances through the ATM which exceed your out-of-pocket expenditures for a trip.
- Allow your monthly bill to become overdue because this could result in suspension or cancellation of your card.
- Wait for the receipt of your monthly bill to file your travel claim.

- Forget that the card is issued in your name and the liability for payment is your responsibility.
- Write your Personal Identification Number (PIN) on your card or carry it in your wallet.

Additional resources pertaining to the GSA SmartPay® 2 program and travel charge cards can be located at www.gsa.gov/gsmartpay. For questions regarding travel charge card use, please contact the Office of Charge Card Management at (703) 605-2808 or gsa_smartpay@gsa.gov.

A Green Fleet

In 2009, GSA Automotive purchased over 44,679 alternative fuel vehicles (AFVs), which accounted for 52% of the total vehicles purchased by Federal agencies. The GSA Fleet leasing program obtained over 22,500 AFVs to lease to its customers; included were 1,085 hybrid electric vehicles. Since 1991, GSA has provided customers a total of 208,599 AFVs for lease and purchase.



GSA Automotive is the Federal Government's source for acquiring non-tactical vehicles. Its sister program, GSA Fleet, leases approximately 214,000 vehicles to numerous federal agencies. GSA, with its vehicle purchasing and leasing programs, is dedicated to our nation's effort to increase environmental responsibility by providing customers with a multitude of solutions for a green fleet. GSA customers can purchase or lease fuel efficient vehicles that meet their mission and operate on either conventional or alternative fuels. GSA is leading the effort to bring new, clean technologies to government fleets, as exemplified in its purchase of over 800 Low Speed Electric Vehicles (LSEVs) for lease in the fall of 2009. These LSEVs are the first ever in GSA's fleet, and collectively displace an estimated 300,000 gallons of fuel annually, compared to the vehicles they replace.

GSA Fleet and Automotive programs stay on top of evolving environmental requirements that affect agencies. For example, Executive Order 13541, "Federal Leadership

in Environmental, Energy and Economic Performance," requires all agencies to reduce their petroleum use by 2% annually through the year 2020. GSA aids federal agencies in following this mandate by providing fuel efficient vehicles and vehicles which run on alternative forms of fuel, such as ethanol. The original Energy Policy Act of 1992 requires federal agencies to acquire fleets comprised of 75% AFVs when located in metropolitan statistical areas. Fleet closely monitors compliance to the 75% quota for every customer and will continue to assist customers as new environmental mandates are enacted. Agencies now have access to vehicle greenhouse gas scores which will aid customers in meeting greenhouse gas reduction quotas.

Alternative Fuel Vehicles

Agencies can choose fuel-efficient and clean vehicles whether buying through GSA Automotive or leasing through GSA Fleet. GSA Automotive provides an up-to-date online Alternative Fuel Vehicle (AFV) product guide which lists the various types of AFVs commercially





available for purchase with a side by side price comparison to the non-AFV choice. AFV choices in Autochoice and in the Federal Standards are proactively updated so that manufacturers can offer the most innovative AFVs commercially available. Customers are continually informed of their AFV options and the benefits of going green.

Online Tools

GSA provides online tools to help customers monitor their vehicle fuel consumption. The GSA Fleet online Drive-thru reporting system provides customers with the ability to generate reports on inventory and fuel use for an agency's entire fleet. Reports generated in the GSA Drive-thru tool allow customers to collect the data necessary for reporting to the Department of Energy's FAST (Federal Automotive Statistic Tool) database. Drive-thru tools further aid GSA customers in gathering information necessary for mandatory fuel use reporting.

GSA and ARRA

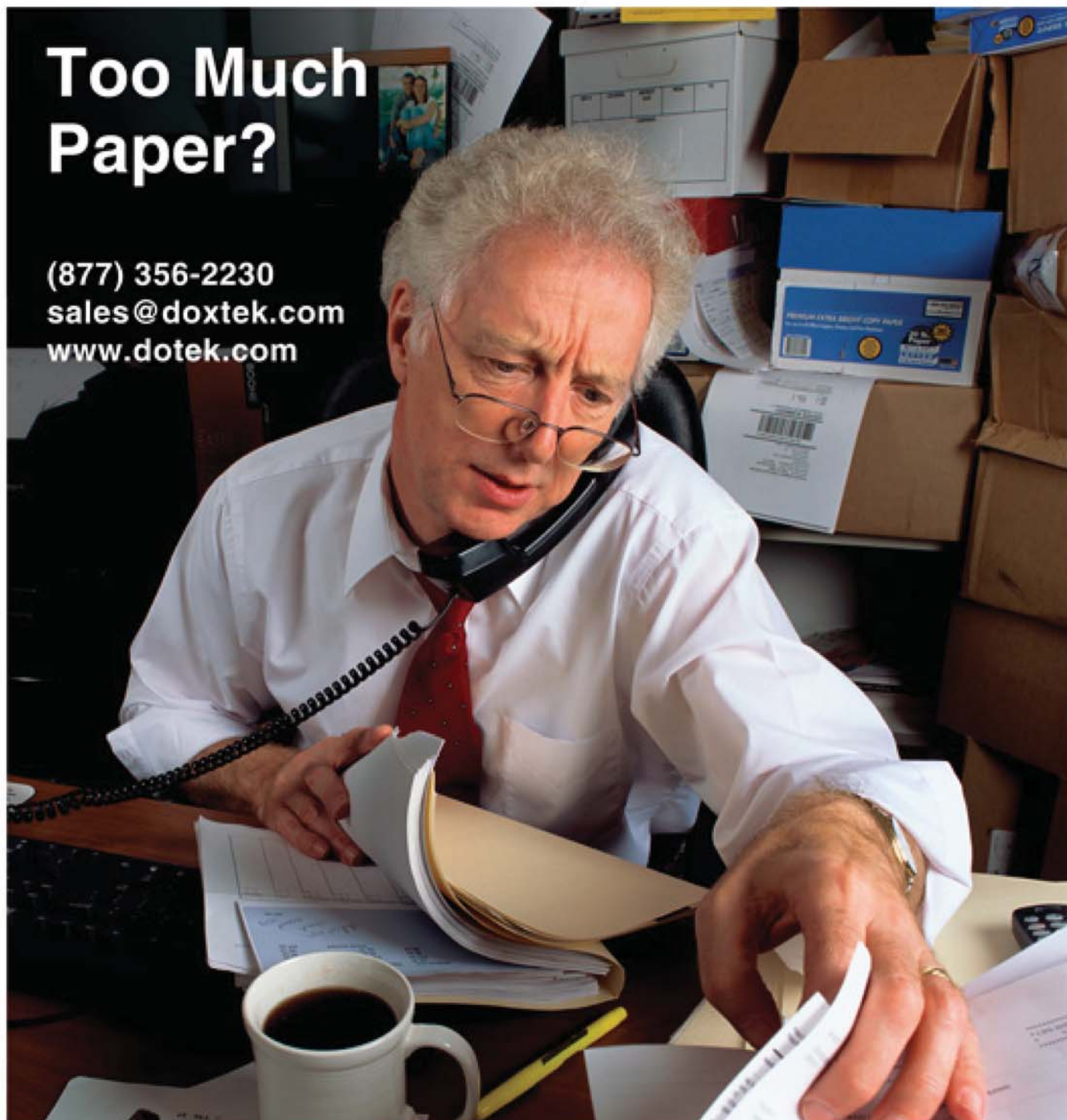
On a larger scale, GSA recently worked to make the whole country greener by supporting the Obama Administration with the American Reinvestment and Recovery Act (ARRA).

In 2009 the new Administration tasked GSA to replace agency-owned fleet vehicles with more fuel efficient vehicles, using \$300 million in appropriated money through ARRA. GSA's seamless and timely execution of this act improved fuel efficiency well over the 10% target required by the Act, and the \$77,000,000 purchase of hybrid vehicles constituted the largest-ever purchase of hybrid vehicles by the Federal Government. Overall, 17,246 vehicles were purchased including 3,136 hybrid vehicles.

GSA's greening efforts will ultimately increase efficiencies, assist customers in meeting their mission goals, and support the Government's long term goal to be green. For more information on GSA's efforts to provide green vehicles and options to federal agencies, please visit our website at www.gsa.gov/afv.

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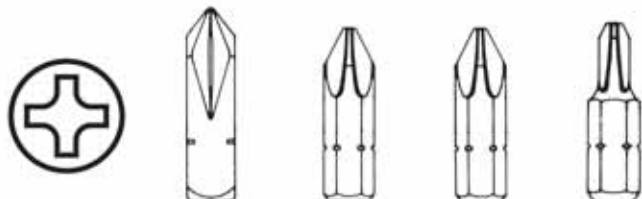


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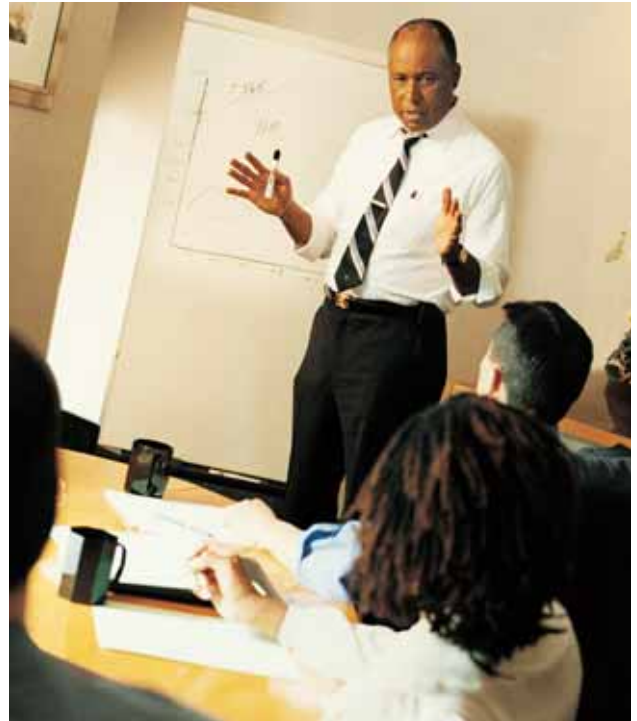
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Seminars are free; however, lodging and transportation, if required, are the attending agency's responsibility. For seminar details and online registration, go to our Web site at www.gsa.gov/events, or contact your local representative at one of the numbers listed below and on the following page.

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marilyn.giusto@gsa.gov

Ask about our group specials.

Heartland — Iowa, Nebraska, Kansas, and Missouri

Tom Brown
(816) 823-2009
thomasf.brown@gsa.gov

Ask about our group specials.

Greater Southwest/Rocky Mountain Region –

Arkansas, Colorado, Louisiana, Montana, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, and Wyoming

Cindy Yandell
(817) 574-2479
cindy.yandell@gsa.gov

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Pacific Rim — California, Arizona, Nevada, Hawaii, and the Far East

Katina Watson
(877) 836-4859
katina.watson@gsa.gov

Hawaii and the Asia Pacific Region

Kristine Fujishige
(808) 541-1775
kristine.fujishige@gsa.gov

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Northwest Arctic – Washington, Oregon, Idaho, and Alaska

Lorraine Morrow
(253) 931-7101
lorraine.morrow@gsa.gov

Worldwide Travel and Transportation Training

FY 2010



**FEDERAL TRAVEL REGULATION ONLINE
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GROUP SPECIALS AND CUSTOM COURSES

Take advantage of all the specialized training available to you from the GSA Professional Development and Training Section. In addition to attending our scheduled courses detailed inside, you also have the option of arranging to have us hold any class listed in this catalog for your group — at the site of your choice! Students may come from your own organization, or you may consolidate with other federal, state, or local government agencies to fill a class. We'll also customize any course for your organization or develop a new course to meet your special needs.

To discuss “Group Specials” and customized courses, special services and rates, please call the GSA Professional Development and Training Section at (703) 605-0555, or email travel.training@gsa.gov.



HOW TO REGISTER

Fill out a completed registration form (available on our Web site at www.gsa.gov/traveltraining) and send via:

Fax – (703) 605-2188

Email – travel.training@gsa.gov

Mail –

Attn: Registrar

GSA, Professional Development and Training Section
2200 Crystal Drive, Suite 300
Arlington, VA 22202

For a complete course listing, please visit www.gsa.gov/traveltraining. For any additional questions, contact us at (703) 605-0555, or send an email to travel.training@gsa.gov.

Special Needs

Employees with special needs, who are attending training, please call the GSA Professional Development and Training Section at (703) 605-0555, or email travel.training@gsa.gov to discuss special arrangements.

Adverse Weather and Government Closure

The GSA Professional Development and Training Section reserves the right to cancel any training session that may be affected by adverse weather, federal emergency or government related closure. Training will be cancelled and rescheduled at a later date. GSA will not be responsible for any additional travel expenses incurred by the student or his/her agency due to adverse weather, federal emergency or government related closure.

Dress Code

When attending GSA Training, the dress code is business casual for both civilian and uniform attendees.

Order Your Worldwide Travel and Transportation Training Catalog at www.gsa.gov/cmls

LECTURE COURSES

1700 – Travel Basics

One Day Course (\$329)

This is a “must take” course if you are new to travel or need a quick refresher on the basic application of travel regulations, programs and procedures. All travelers should take this course to “know before they go” in order to ease the stress of official travel and avoid costly mistakes. The course “Travel Guide” serves as the course textbook as well as a handy travel reference guide! Students will learn how to plan a complete itinerary, select appropriate vendors, finalize arrangements, and complete travel documents. This course is ideal for newly hired government employees, interns, infrequent travelers, and authorizing/supervising/policy officials.

1745 – Relocation Allowances: Federal Travel Regulations (FTR) (\$980)

This class explains, in plain language, the allowances provided to eligible civilian employees making a permanent change of duty station. Course content: travel authorizations, advances and vouchers; service agreements; househunting and en route travel; temporary quarters; shipment of household goods/automobiles; property management; real estate expenses; miscellaneous expenses; and last move home. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.

1750 – Relocation Income Tax Allowances (RITA) (\$895)

This course looks at the treatment of reimbursed moving expenses by federal tax regulations. Students learn to distinguish between federal tax regulations and the FTR in reaching correct decisions concerning the Relocation Income Tax (RIT) allowances and its impact on personnel assigned to new duty stations.

Frequent changes in tax laws and regulations make annual training advisable for those who must know how to identify and calculate allowable moving expenses and taxable income. Instructional methods include lectures and discussions. Students should bring hand calculators to class.



1755 – Shipping Household Goods and Transportation Management Services Solution (TMSS) Two-Day Course (\$895)

This course examines regulations on household goods and transportation. Students review entitlement and transportation regulations, practice preparing and making shipments, and work with loss and damage claims.

Now included in Shipping Household Goods, information on Transportation Management Service Solution (TMSS) which is the first comprehensive online freight and household goods transportation management system designed exclusively for federal civilian agencies. Demonstration of this dynamic new system will enable GSA customers to effectively and efficiently manage the entire transportation process and execute the following tasks online: Rate and route shipments, book shipments, generate bills of lading, track and trace shipments, view proof of delivery, perform repayment audits, pay for transportation services, resolve service and billing disputes, file/settle loss and damage claims, generate transportation reports, perform data analysis and facilitate post payment audits.

1760 – Temporary Duty Travel Federal Travel Regulation (FTR) (\$875)

This lecture course teaches students how to compute temporary-duty travel allowances and responsibilities concerning: travel authorizations; allowable transportation; Fly America Act; contract city-pair fares; per diem allowances; actual expense; eTravel Service (eTS); government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.

LECTURE COURSES

1780 – Conference Planning Six-Hour Session (\$550)

This course teaches students the new travel regulations on conference planning, allowing agencies to increase per diem and pay for light refreshments. Discussion includes: where to hold meetings and conferences nationwide; obtaining proposals; estimating budget costs; what's included in room rate; using approved hotel accommodations; agency requirements for conferences; and the best times to hold conferences.

2060 – Advanced Temporary Duty Travel – Federal Travel Regulation One-Day Course (\$620)

This advanced course provides in-depth discussion of the statute pertaining to travel authorizations and per diem allowances for domestic and foreign travel.

Discussion includes long-term Temporary Duty (TDY) assignments, mandatory use of the contract city-pair fares, and arranging travel services in accordance with FTR amendment 2003-7, eTravel Services, effective January 21, 2004. Additional topics include the mandatory use of the charge card, when conference per diem is allowed, miscellaneous expenses, receipt requirements, and voucher submission. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.



3000 – Temporary Duty Travel – Federal Travel Regulation (FTR)

For more details on registration, cost and payment information, please contact the GSA Professional Development and Training Section at (703) 605-0555 or visit our Web site at

www.gsa.gov/traveltraining.

LECTURE COURSES ON-SITE SPECIAL

1761 – Approving Official Responsibilities: Federal Travel Regulation (On-Site Arrangements Only)

The travel authorizing/approving official or his/her designee (e.g., supervisor of the traveler) must review and sign travel claims to confirm the authorized travel. The reviewing official must have full knowledge of the employee's activities. He/she must ensure that: the claim is properly prepared in accordance with the pertinent regulations and agency procedures; a copy of authorization for travel is provided; the types of expenses claimed are authorized and allowable expenses; the amounts claimed are accurate; and the required receipts, statements, and justifications are attached with the voucher. Course content: travel authorizations; allowable transportation; contract city-pair fares; per diem allowances; actual expense; eTravel Service (eTS); government travel charge card; receipt requirements; miscellaneous expenses; submission of vouchers; and approving official's responsibilities.

For more information, please call the Travel Training Branch at (703) 605-0555, or email us at travel.training@gsa.gov.



DEPARTMENT OF DEFENSE OFFERINGS

1765 – Temporary Duty Travel: Joint Federal Travel Regulations, Volume 1; (Uniformed Services \$875)

This course teaches students to understand temporary-duty travel allowances and responsibilities for uniform members for the Department of Defense. Topics covered are: travel orders; contract travel office (CTO); allowable transportation; fly America act; contract city-pair fares; per diem allowances; meal allowances; actual expense; government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of travel allowances make annual (or even twice yearly) training strongly advised.

1770 – Temporary Duty Travel: Joint Travel Regulations (JTR), Volume 2 (\$875)

This course teaches students how to understand temporary-duty travel allowances and responsibilities in accordance with the Joint Travel Regulations, Vol. 2 for civilian employees with the Department of Defense. Topics covered include: travel orders; contract travel office (CTO); allowable transportation; fly America act; contract city-pair fares; per diem allowances; meal allowances; actual expense; government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of travel regulations make annual (or even twice yearly) training strongly advised.

1775 – Relocation Allowances: Joint Travel Regulations, Volume 2; Three - Day Course (\$980)

This course explains allowances provided to eligible Department of Defense civilian employees making a permanent change of duty station. Course content: travel orders, advances and vouchers, service agreements, house hunting and en route travel, temporary quarters, shipment of household goods/automobiles, property management, real estate expenses, miscellaneous expenses, and last move to home entitlement. Fast changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advisable.



2070 – Advanced Temporary Duty Travel: Joint Travel Regulations (JTR), Volume 2; One-Day Course (\$620)

This course provides in-depth discussion of the statute pertaining to travel orders, per diem allowances for domestic and foreign travel, transportation allowances, mandatory use of the contract airline city-pair fares, Defense Travel Service (DTS, Fly America Act, and the Civilian Board of Contract Appeals Travel Cases). Additional topics include the mandatory use of the charge card, miscellaneous expenses, receipt requirements, and voucher submission. Fast changing updates and streamlining of federal travel allowances make annual or even twice yearly training strongly advisable.

DEPARTMENT OF DEFENSE ON-SITE SPECIAL

1771 – Approving Official Responsibilities: Joint Federal Regulations, Vol. 2 (On-Site Arrangements Only)

The travel authorizing/approving official or his or her designee (e.g., supervisor of the traveler) must review and sign travel claims to confirm the authorized travel. The reviewing official must have full knowledge of the employee's activities. He or she must ensure that: the claim is properly prepared in accordance with the pertinent regulations and agency procedures; a copy of authorization for travel is provided; the types of expenses claimed are authorized and allowable expenses; the amounts claimed are accurate; and the required receipts, statements, and justifications are attached with the voucher. Course content: travel orders; transportation allowances; contract city-pair fares; premium class travel; per diem allowances; contract travel office (CTO); actual expense; miscellaneous expenses; receipt requirements; submission of vouchers; and approving officials responsibilities.



“NEW” ON-SITE SPECIAL

1705 – Advanced Travel Basics Four Hour Session

Prerequisite: Student must have successfully completed Course 1700 Travel Basics

This course consists of the basic rules, regulations, policies, and procedures for the approval, authorization, entitlement, arrangement, performance, and vouchering of official travel provided in the Travel Basics course, as well as a more in-depth review of necessary travel actions, requirements and procedures required before, during, and after official travel is completed.

Intended for: New hires, interns, first time supervisors, new approving officials, new travel preparers or voucher examiners

1730 – Temporary Duty Travel: Federal Aviation Administration Travel Policy (FAA TP) Two Days

This course teaches students how to understand and compute temporary duty travel allowances and responsibilities in accordance with the Federal Aviation Administration Travel Policy (FAA TP).

Intended for FAA personnel only: FAA travel specialists, support staff, frequent travelers, authorizing/supervising/policy officials, new hires and interns.

This course is offered as an on-site special only. For more information, please call the GSA Professional Development and Training Section at (703) 605-0555, or email us at travel.training@gsa.gov.

ADDITIONAL COURSE OFFERINGS

Shipping Household Goods and Transportation Management Services Solution (TMSS), Course 1755

Relocation Income Tax Allowances (RITA), Course 1750

Relocation Allowances: Federal Travel Regulations (FTR), Course 1745

Relocation Allowances: Joint Travel Regulations (JTR), Volume 2, Course 1775

Advanced Temporary Duty Travel: Federal Travel Regulations (FTR), Course 2060

Advanced Temporary Duty Travel: Joint Travel Regulations (JTR), Volume 2, Course 2070



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- **Clothing and Textiles Group.** Quality is the Common Thread
Military clothing such as army combat uniforms, physical fitness apparel, shirts, cold weather gear; bags (for helmets, tools); body armor; gloves; household items (mattresses, towels, custom drapes, bedspreads, linens); screen printing, embroidery and textile repair services.
- **Office Furniture Group.** Health-conscious Office Surroundings
Reception areas to executive suites. Product lines include systems furniture; seating; executive furniture; desks; modular workstations; file and storage products; office accessories. And all OFG factories have achieved ISO 9001:2000 certification.
- **Industrial Products Group.** Designed Smart and Built Tough
Agency seals; traffic/architectural signs; vehicle tags; nameplates; filtration services; lockers; pallet racking and catwalks; prescription and safety eyewear; recognition and promotional products; security fencing.
- **Electronics Business Group.** Your Partner in Mission-Critical Technologies
Precision, cost-effective manufacturing including cable assemblies and wiring harnesses; circuit boards; electronic components and connectors; lighting and power distribution; fiber optics; communications and plastics/molding technologies and, more recently, solar panel manufacturing.
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Nationwide, economical recycling of computer/electronics equipment in factories that are ISO-9001:2000 Certified, IAER Certified, with permits where required.
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Complete range of fleet modernization/remanufacturing/upfitting programs including tactical vehicle remanufacturing (RESET/RECAP); retrofitting and conversion services; fleet asset services.
- **Services Business Group.** The Best Kept Secret
A full range of services which include data and document conversion; digitizing; electronic imaging; printing and bindery; contact center/help desk support; forward and reverse logistics; warehousing and distribution.

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NEWS/UPDATES

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Clearance Items

Drinking System

(****REDUCED PRICE****)



Back worn hydration system. Compatible with CamelBak HydroLink system. Features: Burst-resistant polyurethane reservoir with leak-proof threaded cap. Detachable insulated drinking tube with

bite valve and cover and a positive shut-off valve. Abrasion-resistant 1000D Cordura nylon shell.

Capacity: 100 oz. (3.0 liter); 18.5" L x 10" W x 5" D;
Volume: cargo storage 540 cubic inches, volume including water: 720 cubic inches, empty weight: 1.81 lbs.

Unit includes: Internal access wide-opening fill-port, approximately 9 liters of cargo storage, zippered reservoir compartment, two zippered cargo compartments and a waist belt that can be stowed away. Ventilated back panel, MOLLE attachment system. Adjustable padded shoulder suspension harness with quick-release buckles. Sternum strap with quick-release buckle and an ergonomic carrying handle.

NSN 8465-01-396-9926

P/N 72150 M.U.L.E. or equal

Color Desert Camo

Price ~~\$78.95~~ \$58.00 EA

USMC Insignia Mug

(****REDUCED PRICE****)



This colorful, heavy-duty mug is dishwasher-safe and stays cool to the touch. Mug is made from 100% recycled material and is 100% recyclable when returned to the manufacturer.

Imprinted with the U.S. Marine Corps insignia.

♻️ 100% Recycled

NSN 7350-01-438-7364

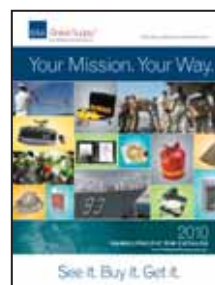
Color White

Size 8 oz.

Price ~~\$23.61~~ \$16.50 BX(contains 4 EA)



■ **CONUS**



■ **Hawaii**



■ **Alaska**

NSN Phase Out

GSA is dedicated to providing environmentally preferred and performance oriented cleaning solutions as well enhancing our relationship with AbilityOne. As a result of these goals a number of cleaning solution NSNs are being phased out and replaced with existing AbilityOne NSNs. An independent laboratory has verified that the AbilityOne NSNs perform as well or better than the NSNs they are replacing when measured against industry standard specifications. GSA wants to assist federal agencies with their effort to follow OFEE guidelines in procuring environmentally preferable and biobased products. Changes like these are a key to making the federal green purchasing program successful. The following list shows the NSNs being phased out and the corresponding replacement NSNs available since December 1, 2009.

All-Purpose Cleaner

Power Green is a concentrated multi-surface cleaner and degreaser. It removes dirt and oily soils from any washable surface including walls, floors, appliances, machinery, and carpets. The product is environmentally preferable. It is biobased, biodegradable, meets volatile organic compound emissions standards and is non-hazardous. It may be diluted in hot, cold, or even sea water to meet specific cleaning needs.



| NSNs no longer available ... | | | ... instead use these NSNs | | |
|------------------------------|--------|-----------|----------------------------|--------|-----------|
| NSN | Size | U/I | NSN | Size | U/I |
| 7930-01-342-5315 | 24 oz. | BX(12 EA) | 7930-01-373-8849 | 22 oz. | BX(12 EA) |
| 7930-01-306-8369 | 1 gal. | BX(6 EA) | 7930-01-373-8848 | 1 gal. | BX(6 EA) |
| 7930-01-342-5316 | 5 gal. | CN | 7930-01-373-8845 | 5 gal. | CN |

ENVIRONMENTAL PRODUCTS

GSA Global Supply™ offers a wide range of products. Please visit us at www.GSAglobalsupply.gsa.gov for a complete selection.



100% Postconsumer Paper ▼

This product meets the need for an environmentally friendly paper, while delivering reliable, high quality performance. This minimum of 92 brightness paper is excellent for daily use in copiers and printers. Processed chlorine free (PCF) without additional bleaching. Both paper and packaging are recyclable with general office waste. Paper has a 20-lb. basis weight.



♻️ 100% Postconsumer Material

NSN 7530-01-503-8441

Color White

Size 8-1/2 x 11"

Price \$68.99 BX(contains 5000 SH)

50% Postconsumer Paper ▼

Aspen 50 copier paper has the same hardworking characteristics and brightness as non-recycled sheets. It is high-performing with excellent runnability. Engineered for use in high-speed copiers, printers, and plain-paper fax machines, this acid-free paper has a 20-lb. basis weight and 92 brightness. Complies with the National Defense Authorization Act of 1998 and AFI 64-117, AF Government-Wide Purchase Card (GPC) program guidelines 2.10.4. **DD**



♻️ 50% Postconsumer Material

NSN 7530-01-555-2904

Color White

Size 8-1/2 x 11"

Price \$42.82 BX(contains 10 RM)



◀ 30% Postconsumer Paper

Guaranteed hassle-free performance in copiers, laser and inkjet printers, plain paper fax machines and multifunction machines. This 92 bright paper provides excellent print contrast. Designed to stay flat and not curl. Perfect for correspondence, as well as presentations. Paper has a 20-lb. basis weight. **CPG**

Sheets are not hole-punched.

♻️ Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 7530-01-335-2623

Color White

Size 8-1/2 x 11"

Price \$39.06 BX(contains 10 RM)

▼ Single-Part Computer Paper



Continuous, flat-fold computer paper features holes punched on both margins for smooth sprocket feed. **CPG**

Has a 20-lb. basis weight. Has three horizontal lines per inch, with the third line printed darker. Does not have vertical margin perforations.

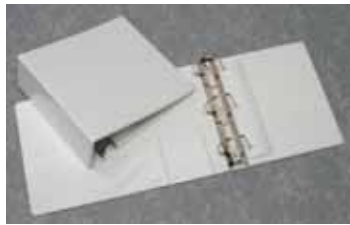
♻️ Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 7530-00-145-0414

Color White

Size 14-7/8 x 11"

Price \$49.59 BX(contains 2500 SH)



▲ Slant D-Ring Binder

Slant D-ring binder includes a clear overlay on front, spine and back cover. Pockets on inside covers. Accommodates 8-1/2 x 11" sheets. **CPG** **AbilityOne**

♻️ Contains 25% Recovered Material

NSN 7510-01-384-8786

Color White

Size Capacity: 1"

Price \$3.33 EA

NSN 7510-01-385-6711

Color White

Size Capacity: 1-1/2"

Price \$3.56 EA

NSN 7510-01-384-8788

Color White

Size Capacity: 2"

Price \$3.94 EA

NSN 7510-01-384-8673

Color White

Size Capacity: 2-1/2"

Price \$4.16EA

NSN 7510-01-368-3486

Color White

Size Capacity: 3"

Price \$3.83 EA



Unprinted Envelope ►

Features a gummed flap that is cut high to prevent water-activated adhesive from touching contents. **CPG**



Side-opening envelope is constructed of unbleached sulfate pulp paper.

♻️ Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 7530-00-286-6963

Color Light Brown or Kraft

Size 12 x 16"

Price \$86.17 BX(contains 500 EA)

NSN 7530-00-926-9000

Color Light Brown or Kraft

Size 11 x 13"

Price \$55.10 BX(contains 500 EA)

Chlorine Free File Folder ▼

Folders are made of 11-point paper stock. Bottom is scored for 3/4" expansion. Folder is made with a water-based adhesive and are Process Chlorine Free, to protect our environment from harmful chemicals. **DD** **AbilityOne**



Single-ply 1/3-cut tabs.

♻️ 100% Recycled

NSN 7530-01-566-4131

Brand AbilityOne

Color Blue

Size Letter Size

Price \$15.78 BX(contains 100 EA)

NSN 7530-01-566-4132

Brand AbilityOne

Color Bright Green

Size Letter Size

Price \$15.78 BX(contains 100 EA)

NSN 7530-01-566-4134

Brand AbilityOne

Color Red

Size Letter Size

Price \$15.78 BX(contains 100 EA)

NSN 7530-01-566-4135

Brand AbilityOne

Color Purple

Size Letter Size

Price \$15.78 BX(contains 100 EA)

NSN 7530-01-566-4137

Brand AbilityOne



Color Yellow

Size Letter Size

Price \$15.78 BX(contains 100 EA)

Classification Folder



◀ Daily projects are superbly organized with these durable file folders. Heavy-duty folder fits easily in a drawer for convenient storage. Made of 217-lb. stock and features a plain, folded bottom. This kraft paperboard folder expands to 3/4" and includes straight-cut self-tabs.  

A 1-1/2" prong fastener is located on the inside top edge of rear cover. Compressor not included.

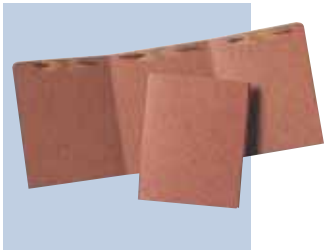
 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material



NSN 7530-00-926-8978

Color Kraft

Size Letter Size

Price \$56.55 HD



◀ This sturdy, heavy-duty folder is made of 217-lb pressboard and conveniently folds to form a three-section folder. A prong fastener is located on inside top of each side section. Total of three prongs.  

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material



NSN 7530-00-707-8406

Color Red

Size Letter Size

Price \$0.57 EA



◀ This sturdy, heavy-duty folder is made of 370-lb pressboard, with a cloth-gusset bottom. Includes a straight-cut self-tab and expands to 1".  

Includes two prong fasteners on top right and left-hand sides of folder. Compressor not included.

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 7530-00-043-1194

Color Green

Size Letter Size

Price \$87.39 HD




▲ Hanging File Folder

This high-quality paperboard file folder is ideal for general office use and fits most filing systems. Expands to 2".



Includes insertable 1/5-cut plastic tabs for easy and convenient labeling.

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 7530-01-364-9501

Color Yellow

Size Letter Size

Price \$11.81 BX (contains 25 EA)

NSN 7530-01-364-9498

Color Green

Size Letter Size

Price \$11.81 BX (contains 25 EA)

NSN 7530-01-364-9500

Color Red

Size Letter Size

Price \$11.81 BX (contains 25 EA)

NSN 7530-01-364-9499

Color Blue

Size Letter Size

Price \$11.81BX (contains 25 EA)

Do you have a suggestion for a new product
or a comment on GSA Global Supply?

E-mail to: GSAglobalsupply@gsa.gov



Paper Towels

◀ Heavyweight paper towels are designed for use in bathroom dispensers. 

Single-fold towels are 99 square inches overall. Fold depth: 5-1/2".

For use with paper towel dispenser NSN 4510-00-224-8549.

 40% Postconsumer Material

NSN 8540-00-262-7178

Color Natural

Size 9-1/4"W

Price \$22.07 BX(contains 4000 EA)



◀ Disposable wiping cloth for cleaning, polishing, and wiping surfaces that are wet, dry or oily. Not intended for use on transparent plastic.

With a 11-lb. basis weight, this towel absorbs up to 275% of its weight in water and up to 150% of its weight in oil.  

Box contains 60 dispenser packages containing 280 towels per dispenser for a total of 16,800 towels.

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material

NSN 7920-00-721-8884

Color White or Natural

Size 4-1/2 x 8" (35 sq. in.)

Price \$80.07 BX(contains 16800 EA)

Box contains 18 packages of 280 towels for a total of 5,040.

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material

NSN 7920-00-682-6710

Color White or Natural

Size 120 sq. in.

Price \$48.95 BX(contains 5040 EA)

Box contains 18 packages of 140 towels for a total of 2,520.

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material

NSN 7920-00-543-6492

Color White or Natural

Size 15-1/4" x 16-1/2"

Price \$54.10 BX(contains 2520 EA)

This towel absorbs up to 450% of its weight in water and up to 275% of its weight in oil. Embossed or creped to facilitate wiping utility.  

Box contains 18 packages of 50 towels for a total of 900.

 40% Postconsumer Material Contains 55% Recovered Material

NSN 7920-00-823-6931


Color White or Natural

Size 13 x 13"

Price \$45.05 BX(contains 900 EA)

Multi-ply towel is reinforced with nylon fibers, making it suitable for cleaning up oil and water. Each banded package holds 100 towels. (Box holds 10 packages, equaling 1,000 towels).

93% biodegradable.

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material

 Biodegradable per EPA/OECD test methods

NSN 7920-00-823-9773  

Color White or Natural

Size 13-1/2 x 13-1/2"

Price \$55.54 MX

 Biodegradable per EPA/OECD test methods

NSN 7920-00-823-9772 


Color White or Natural

Size 13-1/2 x 16-1/2"

Price \$58.57 MX



Cleaning Cloth

◀ Three-ply soft paper towel is highly absorbent and non-abrasive. Paper towel can be used for cleaning and polishing plexiglass, acrylic sheets and aircraft canopies using non-abrasive liquid cleaning solutions or water without scratching the surface. 

Box contains three pop-up dispenser packages containing 90 towels for a total of 270 towels. Designed for cleaning and polishing plastic.

 30% Recycled, Which Includes 30% Postconsumer Material

NSN 7920-01-448-7052

Size 15-1/4 x 16-1/2"

Price \$14.24 BX(contains 270 EA)



◀ Disposable, non-woven cleaning cloth. 

Pop-up, two-ply double creped cellulose wipers are excellent for use in hospitals, kitchens, maintenance shops, and other areas requiring highly absorbent wipers. 100% biodegradable.

 Postconsumer Material

 Biodegradable per EPA/OECD test methods

NSN 7920-01-454-5879

Size 16 x 20"

Price \$37.87 BX(contains 150 EA)



Grocery Bag

► Heavyweight, paper bag is perfect for most items. Basis weight 75-lbs.

NSN 8105-00-022-1319

Color Natural

Size 12 x 7 x 16-1/2"

Price \$41.03 BE(contains 400 EA)



► Popular-weight, paper bag for normal use by commissaries and shops. Dimensions are approximate.



No. 5 bag has a capacity of 187 cu. in.

NSN 8105-00-281-1163

Color Natural

Size 5-1/2 x 3-3/8 x 10-3/4"

Price \$68.46 BE(contains 3000 EA)

Size 7 x 4-1/2 x 13-7/8"

Price \$42.15 BE(contains 1000 EA)

No. 20 bag has a capacity of 686 cu. in.

NSN 8105-00-286-7308

No. 8 bag has a capacity of 298 cu. in.

NSN 8105-00-281-1425

Color Natural

Size 6-1/4 x 3-3/4 x 12-3/4"

Color Natural

Size 8-1/8 x 6 x 14-3/8"



Price \$52.50 BE(contains 1000 EA)

1/4 barrel bag has a capacity of 1746 cu. in.

NSN 8105-00-543-7169

Toilet Paper ▼

Toilet tissue consists of 4 x 4" perforated sheets wound around a core.

Uncompressed rolls are individually wrapped.  



Single-ply.

Basis weight: 10-lbs. (NFES #0142)

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

NSN 8540-00-530-3770

Color White

Size Length: 4,800"

Price \$61.82 BX(contains 80 EA)

Price \$61.86 BE(contains 2000 EA)

No. 12 bag has a capacity of 424 cu. in.

NSN 8105-00-271-1485

Color Natural

Color Natural

Size 11 x 7 x 23-1/4"

Price \$59.08 BE(contains 250 EA)

Hand Cleaner ►

Lite 'n' Foamy Sunflower Fresh is a BioRenewable foaming hand, hair and body wash, formulated with 85% biobased ingredients. It has a pH designed to be gentle on the skin and is boosted with aloe vera to increase the moisture on the skin. **DD** **MSDS** **AbilityOne**



Dispenser NSN 4510-01-551-1194 included.

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biobased

NSN 8520-01-555-3732

Color Sunflower Fragrance

Price \$52.66 GL

For use with foam soap dispenser NSN 4510-01-551-1194.

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biobased

NSN 8520-01-555-2903

Color Sunflower Fragrance

Size 1 gal.

Price \$68.63 BX(contains 4 EA)

Liquid Hand Soap ►

Liquid hand soap for general cleaning of hands, formulated to quickly emulsify, rich lather with mild detergents, with moisturizers, pH balanced, provided in 1-gallon container with handle. Can be used in all liquid soap dispenser and central dispensing systems with no dilution. Biobased. Fragrance added.



① 24-month maximum shelf life (extendable)

🌱 Biobased

NSN 8520-01-432-2618

Size 1 gal.

Price \$30.71 BX(contains 4 EA)

Laundry Detergent ►

Heavy-duty liquid, organic laundry detergent. (Packaged with a dispensing pump - "One stroke" per wash-load.) Each gallon yields 128 wash-loads. In addition to using as a laundry detergent it may be used for vehicle washing, mopping floors and for spray and wipe cleaning. Design for the Environment (DfE). (Does not contain optical brighteners.) **MSDS**



① 24-month maximum shelf life (extendable)

🌱 Biodegradable per EPA/OECD test methods

NSN 7930-01-412-0535

P/N P/N 145495 or equal

Size 1 gal.

Price \$69.69 BX(contains 4 EA)

◀ Laundry Destainer

Solid oxygen-based de-stainer provides gentle, color-safe stain removal. Ideal for shirt laundries and whites. Destains without chlorine. Effective in high-alkaline environments. For use with Ecolab's Solid System III dispensing equipment. Solid oxygen bleach in tablet form. Designed for laundry. **MSDS**



① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; No Hazardous Waste; Nontoxic Item; Biodegradable per EPA/OECD test methods; Carcinogen Free

NSN 7930-01-418-1439

P/N P/N 16016 or equal

Size 3 lb. capsule

Price \$63.98 BX(contains 2 EA)

Biodegradable Cleaner and Degreaser ►

Ready-to-use biodegradable general purpose cleaner that is suitable for use on grease, dirt, soap scum, food stains and fingerprints. Liquid detergent contains no phosphates, abrasives, or dyes. It is non-flammable and non-toxic for aquatic use. **MSDS** **AbilityOne**



Comes in a spray-pump dispenser.

① 36-month maximum shelf life (extendable)

🌱 Nontoxic Item; Biodegradable per EPA/OECD test methods

NSN 7930-00-357-7386

Size 22 oz. bottle

Price \$29.45 BX(contains 12 EA)

NSN 7930-00-926-5280

Size 16 oz. bottle

Price \$83.12 BX(contains 48 EA)

Useful for refilling dispensers.

① 36-month maximum shelf life (extendable)

🌱 Nontoxic Item; Biodegradable per EPA/OECD test methods

NSN 7930-00-068-1669

Size 1/2 gal.

Price \$22.57 BX(contains 6 EA)

NSN 7930-00-177-5243

Size 1 gal.

Price \$28.07 BX(contains 6 EA)



◀ All-Purpose Cleaner

Concentrated general purpose cleaner/degreaser. Removes grease, oil, and dirt from bare and painted surfaces. Biobased, biodegradable, non-hazardous, Low-VOC, cost effective and environmentally preferable. Can be diluted to suit specific cleaning jobs. **DD** **MSDS** **AbilityOne**

Power Green, Ability One product replaces
NSN 7930-01-342-5315.

① 36-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biodegradable per EPA/OECD test methods

NSN 7930-01-373-8849

P/N 1064092 or equal

Size 22 oz trigger spray bottle

Price \$154.32 BX(contains 12 EA)

Power Green, Ability One product replaces
NSN 7930-01-306-8369.

① 36-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biodegradable per EPA/OECD test methods

NSN 7930-01-373-8848

P/N 1064092 or equal

Size 1 gal.

Price \$101.07 BX(contains 6 EA)

Power Green, Ability One product replaces
NSN 7930-01-342-5316.

① 36-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biodegradable per EPA/OECD test methods

NSN 7930-01-373-8845

P/N 064090 or equal

Price \$75.77 CN(contains 5 GL)

① 36-month maximum shelf life (extendable)

🌱 Low-VOC Item; Biodegradable per EPA/OECD test methods

NSN 7930-01-373-8844

Price \$485.03 DR(contains 55 GL)

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▼ Paintbrush

Made with natural hog bristle or synthetic filament. Flat, metal-bound paint and varnish brushes come in several different grades. Grades AA and A are thicker brushes and feature superior paint loading and release. Grade B is excellent for utility painting. Grade C is suitable where a professional finish is not required and for one-time applications such as applying adhesives, cements, etc. Hog bristle brushes should be used only with solvent- or oil-based coatings. Synthetic fiber brushes may be used with solvent-, oil- or water-based coatings. Measurements for brush width, bristle length and brush thickness are nominal. **PRIME**

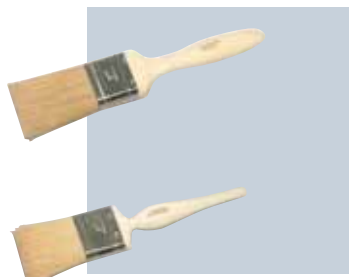
Hog bristle brush. Chiseled shape.

Grade A; Thickness: 3/4"; Chiseled edge.

NSN 8020-00-260-1302

Size 2" w x 2-3/4" l

Price \$4.01 EA



Grade B; Thickness: 1/2"; Chiseled edge.

NSN 8020-00-260-1304

Size 2" w x 2-1/4" l

Price \$2.18 EA

▼ Sash-and-Trim Brush

These brushes are specially designed for painting small, narrow areas on wood and metal furniture, pipes, window frames and screens. Use hog bristle brushes only for solvent-based coatings. Synthetic bristle brushes may be used with solvent- or water-based coatings. Oval brushes have 7-1/2" handles; flat brushes have 7" handles and angular, bevel-cut bristles. **PRIME**



Hog bristle brush. Square shape.

NSN 8020-00-559-0389

Size 2" W x 2-1/2" L x 1/2" Thick.

Price \$3.46 EA



◀ Aerosol Enamel

Fast-drying, general-purpose interior and exterior enamel is perfect for coating small objects and areas. For use on metal, wood, plaster, masonry, stone, glass, leather, fiber, and previously painted surfaces. Packaged in an aerosol can that sprays easily without sputtering, using moderate finger pressure. User should shake by hand for one minute before using. A-A-2787. **MSDS** **AbilityOne**

Type I - Solvent-thinned enamel. VOC: 60%

① 36-month maximum shelf life (extendable)

🌿 Chromate-Free Item According to ASTM/EPA Test Methods; Lead-Free Item According to ASTM/EPA Test Methods

NSN 8010-01-331-6105

Color White 17875

Price \$9.44 PT

NSN 8010-01-331-6107

Color Black 17038

Price \$9.44 PT

NSN 8010-01-331-6109

Color Red 11136

Price \$9.44 PT

NSN 8010-01-331-6111

Color Olive Drab 14064

Price \$9.44 PT

NSN 8010-01-331-6114

Color Yellow 13655

Price \$9.44 PT

NSN 8010-01-331-6106

Color White 37875

Price \$9.44 PT

NSN 8010-01-331-6108

Color Black 37038

Price \$9.44 PT

NSN 8010-01-331-6110

Color Red 11105

Price \$9.44 PT

NSN 8010-01-331-6113

Color Olive Drab 34088

Price \$9.44 PT

NSN 8010-01-331-6115

Color Yellow 13538

Price \$9.44 PT

▼ Marine Coating



This silicone alkyd copolymer (solvent-based) enamel is intended for use on primed, smooth metal, fiberglass, wood and plastic/composite surfaces. Highly weather-resistant enamel has excellent color and gloss retention, good drying, freedom from aftertack, and good flexibility. For brush, roller or spray application. MIL-PRF-24635. MEETS QPL REQUIREMENTS. [MSDS](#) [CA](#)

Type II - Maximum VOC 340 g/L; Class 2 - Dries to semi-gloss finish (45 to 60%); Grade A - Standard pigmented.

① 24-month maximum shelf life (extendable)

☘ Low-VOC Item; ODS-Free Item; NESHAP compliant; Carcinogen Free

NSN 8010-01-344-5322

Color White 27875

Price \$178.05 CN(contains 5 GL)



Type II - Maximum VOC 340 g/L; Class 3 - Dries to a low-gloss finish (15 to 30); Grade A - Standard pigmented.

① 24-month maximum shelf life (extendable)

☘ Low-VOC Item; ODS-Free Item; NESHAP compliant; Carcinogen Free

NSN 8010-01-344-6703

Color Black 37038

Price \$250.51 CN(contains 5 GL)

Type II - Maximum VOC 340 g/L; Class 2 - Dries to semi-gloss finish (45 to 60%); Grade A - Standard pigmented.

① 24-month maximum shelf life (extendable)

☘ Low-VOC Item; ODS-Free Item; NESHAP compliant; Carcinogen Free

NSN 8010-01-350-4727

Color Gray 26008

Price \$167.75 CN(contains 5 GL)



◀ Single-Component CARC Polyurethane Coating

Use this single-component, chemical agent resistant, polyurethane coating (CARC) as a finishing coat on military combat equipment. Easily decontaminated after exposure to liquid chemical agents, coating also is resistant to water, weather, hydrocarbons and acids. Dries to the touch in 30 minutes and dries hard to a flat finish in three hours. Apply over epoxy primers by spray or brush. Maximum VOC: 420 g/L. MIL-DTL-53039. MEETS QPL REQUIREMENTS. [MSDS](#)

① 12-month maximum shelf life (extendable)

☘ Lead-Free Item According to ASTM/EPA Test Methods; Hexavalent-Chromium Free Item According to ASTM/EPA Test Methods; Carcinogen Free

NSN 8010-01-276-3640

Color Tan 33446

Price \$213.78 CN(contains 5 GL)



▲ Epoxy Ship Paint

Epoxy-polyamide finish coat protects bilges, tanks, exterior underwater hulls and other components of a ship. The hard, durable and chemically resistant coating is appropriate for sandblasted steel, aluminum or fiberglass surfaces. Resistant to water immersion and solvents. Non-porous. Dries to a semigloss finish. Apply by spray or brush. Kit consists of equal quantities of components A and B. MIL-DTL-24441. MEETS QPL REQUIREMENTS. [MSDS](#) [PRIME](#) [CA](#)

Type III - Three coat system. Maximum VOC: 340 g/L.

① 24-month maximum shelf life (extendable)

☘ CFC-Free Item; Chromate-Free Item According to ASTM/EPA Test Methods; Lead-Free Item According to ASTM/EPA Test Methods; Low-VOC Item; ODS-Free Item; Mercury-Free Item According to ASTM/EPA Test Methods; Cadmium Free According to ASTM/U.S.EPA Test Methods; Hexavalent-Chromium Free Item According to ASTM/EPA Test Methods; Benzene-Free Item According to ASTM/EPA Test Methods; NESHAP compliant; Toluene Free; Carcinogen Free; HAPS Free

NSN 8010-01-302-3608

Color Green 24272

Size 10 gal A & B Total, Formula 150.

Price \$325.51 KT

CARC Polyurethane Coating ►

Water-dispersible, chemical agent resistant, aliphatic polyurethane coatings for use as a finish coat on all military tactical equipment, which includes ground, aviation and related support assets. The materials are free of hazardous air pollutants (HAP-free), lead and chromate (hexavalent chromium) free, and have a maximum volatile organic compound (VOC) content of 220g/L (1.8 lb/gal) as packaged. Packaged in two-part kits which are mixed, then water is added to final volume. MIL-DTL-64159. QPL QUALIFICATION REQUIRED. **DD** **MSDS** **CA**



Type II - Polymeric Bead. Features the following: Novel pigment package; Use of polymeric beads for flattening agents; Non-marring; Superior weather resistance compared to standard CARC systems.

① 12-month maximum shelf life (extendable)

☘ Chromate-Free Item According to ASTM/EPA Test Methods; Lead-Free Item According to ASTM/EPA Test Methods; Low-VOC Item; Hexavalent-Chromium Free Item According to ASTM/EPA Test Methods; Benzene-Free Item According to ASTM/EPA Test Methods; HAPS Free

NSN 8010-01-493-3170

Color Green 34094 (383)

Size Volume: 3 gal.

Price \$145.00 KT

General-Purpose Adhesive (Epoxy) ▼

A fast-setting, two component epoxy based adhesive for use with assemblies on Pratt & Whitney turbofan engines. **MSDS**

① 24-month maximum shelf life (extendable)

☘ No Hazardous Waste; Nontoxic Item

NSN 8040-00-092-2816

Color Clear

Size A & B 3.5gm Total.

Price \$92.03 BX(contains 100 EA, EA has 3.5 GM)



▲ Color Fan Deck Book

Complete set of 2 x 1/2" individual federal standard color chips used to identify and compare colors of paints and coatings with gloss, semigloss and flat finishes. Not to be used for color calibration.

Colors are in accordance with Federal Standard 595, Revision C, dated January 16, 2008, and Change Notice 1, dated July 31, 2008.

NSN 7690-01-162-2210

Price \$49.59 EA

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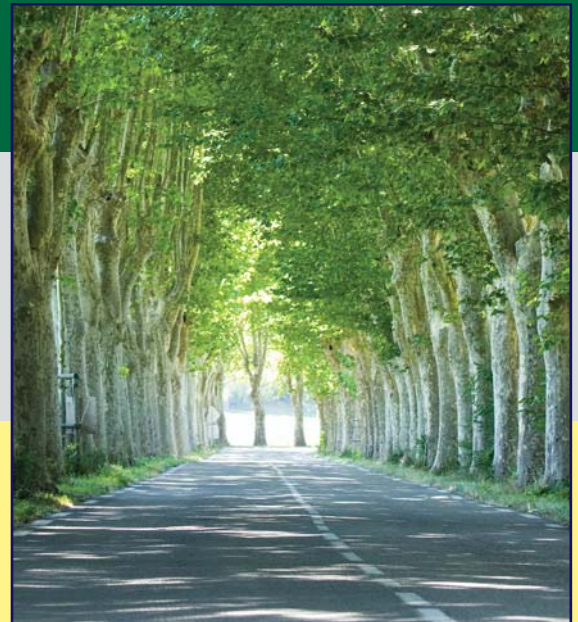
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